



Republic of the Philippines
Department of Education
REGION IV-A CALABARZON
SCHOOLS DIVISION OF BATANGAS

July 6, 2026

DIVISION MEMORANDUM
No. 323, s. 2026

**UTILIZATION OF NUMERACY INTERVENTION MATERIALS AND
INTERACTIVE ASSESSMENT e-TOOLS FOR DIVERSE
KEY STAGES 1-4 LEARNERS**

TO: Assistant Schools Division Superintendents
Chief-Curriculum Implementation Division (CID)
Chief-School Governance and Operations Division (SGOD)
Education Program Supervisors
Public Schools District Supervisors
Public Elementary and Secondary School Heads
All Others Concerned

1. Pursuant to Republic Act 10533, an Act Enhancing the Basic Education System by Strengthening its Curriculum, particularly section 10.2 of paragraphs (a),(d, (g) and (h), and DepEd Order No. 35 s. 2016, SDO Batangas reiterates the Standards and Principles of the Basic Education Curriculum Development, that curriculum shall be learner- centered, contextualized, use spiral progression approach to ensure mastery of knowledge and skills, and flexible enough to enable and allow schools to localize instructional materials.
2. Relative to this, SDO Batangas Province is implementing an Innovation Program for Curriculum and Instruction (C & I) that could help increase learners' achievement particularly in Mathematics. The Utilization of *Numeracy Intervention Materials and Interactive Assessment e-Tools for Diverse K to 12 Learners* is expected during the learning sessions.
3. The program aims to:
 - a. use appropriate intervention materials and interactive assessment e-tools for diverse learners to cope the unmastered skills competencies of the struggling learners and cater more complicated skills for advanced learners.
 - b. determine reliable data to measure and identify learners' PRE and POST level of accuracy, numeracy level, and speed of accuracy on the specific learning competency of the content standard.



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- c. Familiarize learners on the following assessments: the School-based Test, the National Achievement Test (NAT), the Program for International Student Assessment (PISA), the Southeast Asia Primary Learning Metrics (SEA-PLM) and on the Trends in International Mathematics and Science Study (TIMSS).

4. The following activities relative to the implementation of the program as follows:

Date	Activity	Level
July 2026 onwards	District-based provision of Technical Assistance, RE: Utilization of Numeracy Intervention Materials and Interactive Assessment electronic and Digital Tools for Diverse Key Stages 1-4 Learners	District
Whole Cycle/Duration of School Year	Monitoring, Evaluation, and Validation of the Program Utilization	School

5. Attached are the sample numeracy intervention materials for diverse Key Stages 1-4 learners.
6. Soft copies of interactive assessment e-tools parallel to the numeracy intervention materials are to be uploaded and shared during the online meeting of Elementary and Secondary District Mathematics Coordinators on July 9, 2026 at 10AM to 12:00 noon.
7. Immediate and wide dissemination of this Memorandum is desired.


MARITES A. IBANEZ, CESO V
Schools Division Superintendent

Encl. As stated

Reference: Republic Act (RA) No. 12028

DepEd Order (DO) No. 18, s. 2025

To be indicated in the Perpetual Index under the following subject:

Issuances- Division Memorandum

ERT/UTILIZATION OF NUMERACY INTERVENTION MATERIALS AND INTERACTIVE ASSESSMENT e-TOOLS FOR DIVERSE KEY STAGES 1-4 LEARNERS



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Form 1A- Assessment Tools for Written Test Using Numeracy Intervention Materials

FORMULA AND LEGEND FOR ASSESSING & ANALYZING LEARNERS' PERCENT OF ACCURACY, LEVEL OF PROFICIENCY/NUMERACY, AND SPEED OF ACCURACY IN A PARTICULAR COMPETENCY OF CONTENT STANDARD

I. Formula for Percent of Accuracy: For Written Evaluation Test using Numeracy Intervention Materials:

$$\text{Percent of Accuracy} = \frac{\text{total correct score}}{\text{total no. of Items}} \times 100\%$$

II. Legend for Identifying the Level of Numeracy/Proficiency

Levels of Numeracy/ Proficiency	Percent of Accuracy	What to Do?
Highly Numerate/Highly Proficient	90%-100%	Provide further activities focusing on the situational analysis navigating to the <i>school-based, National and International Assessment</i>
Numerate/Proficient	75%-89%	Provide prerequisite activities relative to the <i>Real Time or At Grade Level till he/she becomes Highly Numerate</i> and to familiarize how to solve situational analysis navigating to the school-based, National and International Assessments
Moderately Numerate /Nearly Proficient	50%-74%	Provide prerequisite activities relative to the <i>Real Time or At Grade Level till he/she becomes at least Numerate</i> and familiarize how to solve situational analysis navigating to the school-based, National and International Assessments
Moderately Non-Numerate/Low Proficient	25%-49%	Provide Intensive Remediation focusing on the Basic Concepts of Mastering the Fundamentals of Mathematics till he/she becomes <i>at least Numerate/Proficient</i>
Non-Numerate/Not Proficient	0%-24%	Provide Intensive Remediation focusing on the Basic Concepts of Mastering the Fundamental of Mathematics till he/she becomes <i>Reader leading to at least Numerate/Proficient</i>



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Form 1B- SAMPLE Result for Written Test Using Numeracy Intervention Materials

SAMPLE DATA: 20-Item Test

Name of Student/s	Score	Percent of Accuracy	Level of Numeracy/ Proficiency Level	Description and Analysis of Students Performance
Student A	20	100.00%	Highly Numerate/ Highly Proficient	Provide further activities focusing on the situational analysis navigating to the school-based, National and International Assessment
Student B	17	85%	Numerate/Proficient	Provide prerequisite activities relative to the <i>Real Time or At Grade Level</i> till he/she becomes <i>Highly Numerate</i> and to familiarize how to solve situational analysis navigating to the school-based, National and International Assessments
Student C	14	70%	Moderately Numerate /Nearly Proficient	Provide prerequisite activities relative to the <i>Real Time or At Grade Level</i> till he/she becomes <i>at least Numerate</i> and familiarize how to solve situational analysis navigating to the school-based, National and International Assessments
Student D	9	45%	Moderately Non-Numerate/ Low Proficient	Provide Intensive Remediation focusing on the Basic Concepts of Mastering the Fundamentals of Mathematics till he/she becomes <i>at least Numerate/Proficient</i>
Student E	4	20%	Non-Numerate/ Not Proficient	Provide Intensive Remediation focusing on the Basic Concepts of Mastering the Fundamental of Mathematics till he/she becomes <i>Reader leading to at least Numerate/Proficient</i>



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III. Mechanism to Determine the Speed of Accuracy for Oral Evaluation Test Using Electronic and Digital Assessments/Tools

NOTE: IF the learners **committed 3 consecutive mistakes** of the test items during *Oral Evaluation Test*, **STOP** the process and design remediation appropriate to the level of his/her proficiency, then **REPEAT** Oral Evaluation Test on the next session.

Speed of Accuracy = JUST RECORD the ACQUIRED TIME CONSUMED (Minutes + Seconds)

Name of Student/s	No. of Items	Percent of Accuracy	Level of Numeracy/ Proficiency Level	Description and Analysis of Students Performance
<i>Student A</i>	20	100.00%	Highly Numerate/ Highly Proficient	Provide further activities focusing on the situational analysis navigating to the <i>school-based, National and International Assessment</i>
<i>Student B</i>	19	95%	Numerate/Proficient	Provide prerequisite activities relative to the <i>Real Time or At Grade Level</i> till he/she becomes <i>Highly Numerate</i> and to familiarize how to solve situational analysis navigating to the school-based, National and International Assessments
<i>Student C</i>	18	90%	Moderately Numerate /Nearly Proficient	Provide prerequisite activities relative to the <i>Real Time or At Grade Level</i> till he/she becomes <i>at least Numerate</i> and familiarize how to solve situational analysis navigating to the school-based, National and International Assessments
<i>Student D</i>	Committed at least 3 Consecutive Mistakes		STOP	Provide Intensive Remediation focusing on the Basic Concepts of Mastering the Fundamentals of Mathematics till he/ she becomes <i>at least Numerate/Proficient</i>
<i>Student D</i>				RE-ASSESS till he/she becomes <i>Reader</i> leading to at least Numerate/Proficient



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NUMERACY INTERVENTION MATERIALS FOR KEY STAGES 2-4 MATHEMATICS
 REAL TIME: GRADE 7 TERM: 1 CONTENT: *Numbers and Number Sense*
 CONTENT STANDARD: Demonstrate key concepts of the real number system
 LEARNING COMPETENCY: Performs Fundamental Operations on Integers - *M7NS-1c-d-1*
 PREREQUISITE SKILLS: Familiarize and master basic concepts on adding, subtracting,
 multiplying, and dividing integers

Name of Student: _____ PRE-TEST SCORE: _____
 Grade and Section: _____ POST TEST SCORE: _____

BASIC CONCEPTS ON ADDITION OF INTEGERS – LEVEL 1

Directions: Find the sum of the given integers. Formulate generalization on how to **add both positive integers**.

Example: $4 + 3 = 7$

- | | |
|------------------------------------|------------------------------------|
| 1. $5 + 7 =$ <input type="text"/> | 11. $7 + 6 =$ <input type="text"/> |
| 2. $2 + 8 =$ <input type="text"/> | 12. $8 + 3 =$ <input type="text"/> |
| 3. $2 + 3 =$ <input type="text"/> | 13. $5 + 1 =$ <input type="text"/> |
| 4. $9 + 5 =$ <input type="text"/> | 14. $2 + 2 =$ <input type="text"/> |
| 5. $4 + 6 =$ <input type="text"/> | 15. $6 + 1 =$ <input type="text"/> |
| 6. $7 + 5 =$ <input type="text"/> | 16. $2 + 4 =$ <input type="text"/> |
| 7. $3 + 7 =$ <input type="text"/> | 17. $9 + 2 =$ <input type="text"/> |
| 8. $9 + 2 =$ <input type="text"/> | 18. $5 + 3 =$ <input type="text"/> |
| 9. $5 + 4 =$ <input type="text"/> | 19. $1 + 3 =$ <input type="text"/> |
| 10. $8 + 9 =$ <input type="text"/> | 20. $0 + 4 =$ <input type="text"/> |

Total Score:

INSIGHTS: IN ADDING BOTH POSITIVE INTEGERS, I HAVE LEARNED THAT

Percent of Numeracy: _____ Level of Numeracy: _____ Speed of Accuracy: _____ 

Prepared by: _____ Assessed by: _____

Teachers/ Parents Comments and Suggestions:

Teacher's Signature _____ Parent's Signature _____



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NUMERACY INTERVENTION MATERIALS FOR KEY STAGES 2-4 MATHEMATICS

REAL TIME: GRADE 7 TERM: 1 CONTENT: *Numbers and Number Sense*

CONTENT STANDARD: Demonstrate key concepts of the real number system

LEARNING COMPETENCY: Performs Fundamental Operations on Integers - *M7NS-Ic-d-1*

PREREQUISITE SKILLS: Familiarize and master basic concepts on adding, subtracting, multiplying, and dividing integers

Name of Student: _____ PRE-TEST SCORE: _____
 Grade and Section: _____ POST TEST SCORE: _____

BASIC CONCEPTS ON ADDITION OF INTEGERS – LEVEL 2

Directions: Find the sum of the given integers. Formulate generalization on how to **add both negative integers**.

Example: $-4 + -3 = \boxed{-7}$

1. $-5 + -7 = \square$

11. $-1 + -6 = \square$

2. $-2 + -8 = \square$

12. $-8 + -4 = \square$

3. $-2 + -3 = \square$

13. $-5 + -1 = \square$

4. $-9 + -5 = \square$

14. $-1 + -3 = \square$

5. $-4 + -6 = \square$

15. $-2 + -1 = \square$

6. $-7 + -5 = \square$

16. $-2 + -4 = \square$

7. $-3 + -7 = \square$

17. $-1 + -2 = \square$

8. $-9 + -2 = \square$

18. $-1 + -3 = \square$

9. $-5 + -4 = \square$

19. $-1 + -4 = \square$

10. $-8 + -9 = \square$

20. $0 + -4 = \square$

Total Score:

INSIGHTS: IN ADDING BOTH NEGATIVE INTEGERS, I HAVE LEARNED THAT

Percent of Numeracy: _____ Level of Numeracy: _____ Speed of Accuracy: _____



Prepared by: _____ Assessed by: _____

Teachers/ Parents Comments and Suggestions:

 Teacher's Signature Parent's Signature





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NUMERACY INTERVENTION MATERIALS FOR KEY STAGES 2-4 MATHEMATICS

REAL TIME: GRADE 7 TERM: 1 CONTENT: *Numbers and Number Sense*

CONTENT STANDARD: Demonstrate key concepts of the real number system

LEARNING COMPETENCY: Performs Fundamental Operations on Integers - *M7NS-1c-d-1*

PREREQUISITE SKILLS: Familiarize and master basic concepts on adding, subtracting, multiplying, and dividing integers

Name of Student: _____ PRE-TEST SCORE: _____
Grade and Section: _____ POST TEST SCORE: _____

BASIC CONCEPTS ON ADDITION OF INTEGERS – LEVEL 3

Directions: Find the sum of the given integers. Formulate generalization on how to add **UNLIKE SIGNS- negative and positive integers, when the higher absolute number is positive.**

Example $(-4) + 5 =$

1. $(-5) + 7 =$

11. $(-7) + 8 =$

2. $(-2) + 8 =$

12. $(-1) + 4 =$

3. $(-2) + 3 =$

13. $(-2) + 9 =$

4. $(-3) + 5 =$

14. $(-2) + 3 =$

5. $(-4) + 9 =$

15. $(-2) + 5 =$

6. $(-7) + 8 =$

16. $(-2) + 4 =$

7. $(-3) + 7 =$

17. $(-6) + 8 =$

8. $(-2) + 9 =$

18. $(-5) + 9 =$

9. $(-5) + 6 =$

19. $(-4) + 7 =$

10. $(-8) + 9 =$

20. $(0) + 2 =$

Total Score:

INSIGHTS: IN ADDITION OF NEGATIVE INTEGERS, I HAVE LEARNED THAT

Percent of Numeracy: _____ Level of Numeracy: _____ Speed of Accuracy: _____ 

Prepared by: _____ Assessed by: _____

Teachers/ Parents Comments and Suggestions:

Teacher's Signature Parent's Signature





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NUMERACY INTERVENTION MATERIALS FOR KEY STAGES 2-4 MATHEMATICS

REAL TIME: GRADE 7 TERM: 1 CONTENT: *Numbers and Number Sense*

CONTENT STANDARD: Demonstrate key concepts of the real number system

LEARNING COMPETENCY: Performs Fundamental Operations on Integers - *M7NS-1c-d-1*

PREREQUISITE SKILLS: Familiarize and master basic concepts on adding, subtracting, multiplying, and dividing integers

Name of Student: _____ PRE-TEST SCORE: _____

Grade and Section: _____ POST TEST SCORE: _____

BASIC CONCEPTS ON ADDITION ON INTEGERS – LEVEL 4

Directions: Find the sum of the given integers. Formulate generalization on how to add positive and negative integers, when higher absolute number is negative.

Example : $3 + (-4) = -1$

1. $5 + (-7) = \square$

11. $7 + (-9) = \square$

2. $2 + (-8) = \square$

12. $8 + (-9) = \square$

3. $2 + (-3) = \square$

13. $5 + (-6) = \square$

4. $3 + (-5) = \square$

14. $3 + (-7) = \square$

5. $4 + (-9) = \square$

15. $2 + (-8) = \square$

6. $7 + (-8) = \square$

16. $2 + (-7) = \square$

7. $3 + (-7) = \square$

17. $6 + (-10) = \square$

8. $2 + (-9) = \square$

18. $5 + (-8) = \square$

9. $5 + (-6) = \square$

19. $4 + (-7) = \square$

10. $8 + (-9) = \square$

20. $0 + (-2) = \square$

Total Score:

INSIGHTS: IN ADDITION OF NEGATIVE INTEGERS, I HAVE LEARNED THAT

Percent of Numeracy: _____ Level of Numeracy: _____ Speed of Accuracy: _____



Prepared by: _____ Assessed by: _____

Teachers/ Parents Comments and Suggestions:

 Teacher's Signature

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NUMERACY INTERVENTION MATERIALS FOR KEY STAGES 2-4 MATHEMATICS

REAL TIME: GRADE 7 TERM: 1 CONTENT: *Numbers and Number Sense*

CONTENT STANDARD: Demonstrate key concepts of the real number system

LEARNING COMPETENCY: Performs Fundamental Operations on Integers - *M7NS-Ic-d-1*

PREREQUISITE SKILLS: Familiarize and master basic concepts on adding, subtracting, multiplying, and dividing integers

Name of Student: _____ PRE-TEST SCORE: _____
 Grade and Section: _____ POST TEST SCORE: _____

BASIC CONCEPTS ON ADDITION OF INTEGERS – LEVEL 5

Directions: Find the sum of the given integers. Formulate generalization on how to **add integers with mixed signed numbers**

1. $5 + 9 =$

11. $2 + 1 =$

2. $(-2) + (-7) =$

12. $(-8) + (-1) =$

3. $2 + (-8) =$

13. $5 + (-4) =$

4. $(-9) + 5 =$

14. $(-2) + 1 =$

5. $4 + 9 =$

15. $6 + (-2) =$

6. $3 + (-8) =$

16. $(-2) + 4 =$

7. $(-4) + 7 =$

17. $6 + 1 =$

8. $(-5) + (-9) =$

18. $(-5) + (-3) =$

9. $7 + (-6) =$

19. $3 + (-4) =$

10. $(-8) + 6 =$

20. $(0) + (4) =$

Total Score:

INSIGHTS: IN ADDING OF BOTH POSITIVE INTEGERS, BOTH NEGATIVE INTEGERS, UNLIKE SIGNS, I HAVE LEARNED THAT

Percent of Numeracy: _____ Level of Numeracy: _____ Speed of Accuracy: _____



Prepared by: _____

Assessed by: _____

Teachers/ Parents Comments and Suggestions:

Teacher's Signature

Parent's Signature



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NUMERACY INTERVENTION MATERIALS FOR KEY STAGES 2-4 MATHEMATICS
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CONTENT STANDARD: Demonstrate key concepts of the real number system
LEARNING COMPETENCY: Performs Fundamental Operations on Integers - *M7NS-1c-d-1*
PREREQUISITE SKILLS: Familiarize and master basic concepts on adding, subtracting,
multiplying, and dividing integers

KEY TO CORRECTION: BC ADDITION OF INTEGERS – LEVEL 1

Directions: Find the sum of the given integers. Formulate generalization on how to **add both positive integers**.

1. $5 + 7 =$

2. $2 + 8 =$

3. $2 + 3 =$

4. $9 + 5 =$

5. $4 + 6 =$

6. $7 + 5 =$

7. $3 + 7 =$

8. $9 + 2 =$

9. $5 + 4 =$

10. $8 + 9 =$

11. $7 + 6 =$

12. $8 + 3 =$

13. $5 + 1 =$

14. $2 + 2 =$

15. $6 + 1 =$

16. $2 + 4 =$

17. $9 + 2 =$

18. $5 + 3 =$

19. $1 + 3 =$

20. $0 + 4 =$



IN ADDING BOTH POSITIVE INTEGERS, I HAVE LEARNED THAT I WILL JUST ADD THE NUMERS, THE SIGN WILL BE AUTOMATICALLY POSITIVE AND MAY NOT BE INDICATED.



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CONTENT STANDARD: Demonstrate key concepts of the real number system
LEARNING COMPETENCY: Performs Fundamental Operations on Integers - *M7NS-1c-d-1*
PREREQUISITE SKILLS: Familiarize and master basic concepts on adding, subtracting, multiplying, and dividing integers

KEY TO CORRECTION: BC ADDITION OF INTEGERS – LEVEL 2

Directions: Find the sum of the given integers. Formulate generalization on how to add **both negative integers**.

1. $(-5) + (-7) = \boxed{-12}$

2. $(-2) + (-8) = \boxed{-10}$

3. $(-2) + (-3) = \boxed{-5}$

4. $(-9) + (-5) = \boxed{-14}$

5. $(-4) + (-6) = \boxed{-10}$

6. $(-7) + (-5) = \boxed{-12}$

7. $(-3) + (-7) = \boxed{-10}$

8. $(-9) + (-2) = \boxed{-11}$

9. $(-5) + (-4) = \boxed{-9}$

10. $(-8) + (-9) = \boxed{-17}$

11. $(-1) + (-6) = \boxed{-7}$

12. $(-8) + (-4) = \boxed{-12}$

13. $(-5) + (-1) = \boxed{-6}$

14. $(-1) + (-3) = \boxed{-4}$

15. $(-2) + (-1) = \boxed{-3}$

16. $(-2) + (-4) = \boxed{-6}$

17. $(-1) + (-3) = \boxed{-4}$

18. $(-1) + (-4) = \boxed{-5}$

19. $0 + (-4) = \boxed{-4}$



INSIGHTS: IN ADDING BOTH NEGATIVE INTEGERS, I HAVE LEARNED THAT I WILL JUST ADD THE NUMBERS AND COPY THE NEGATIVE SIGN.



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CONTENT STANDARD: Demonstrate key concepts of the real number system
LEARNING COMPETENCY: Performs Fundamental Operations on Integers - *M7NS-1c-d-1*
PREREQUISITE SKILLS: Familiarize and master basic concepts on adding, subtracting, multiplying, and dividing integers

KEY TO CORRECTION: BC ADDITION OF INTEGERS – LEVEL 3

Directions: Find the sum of the given integers. Formulate generalization on how to **add UNLIKE SIGNS**- negative and positive integers, when higher absolute number is positive.

1. $(-5) + 7 =$

2. $(-2) + 8 =$

3. $(-2) + 3 =$

4. $(-3) + 5 =$

5. $(-4) + 9 =$

6. $(-7) + 8 =$

7. $(-3) + 7 =$

8. $(-2) + 9 =$

9. $(-5) + 6 =$

10. $(-8) + 9 =$

11. $(-7) + 8 =$

12. $(-1) + 4 =$

13. $(-2) + 9 =$

14. $(-2) + 3 =$

15. $(-2) + 5 =$

16. $(-2) + 4 =$

17. $(-6) + 8 =$

18. $(-5) + 9 =$

19. $(-4) + 7 =$

20. $(0) + 2 =$



IN ADDING INTEGERS WITH UNLIKE SIGNS, I HAVE LEARNED THAT I WILL GET THE DIFFERENCE OF THE GIVEN NUMBERS, THEN JUST COPY THE SIGN OF THE GREATER ABSOLUTE VALUE.



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NUMERACY INTERVENTION MATERIALS FOR KEY STAGES 2-4 MATHEMATICS

REAL TIME: GRADE 7 TERM: 1 CONTENT: *Numbers and Number Sense*

CONTENT STANDARD: Demonstrate key concepts of the real number system

LEARNING COMPETENCY: Performs Fundamental Operations on Integers - *M7NS-1c-d-1*

PREREQUISITE SKILLS: Familiarize and master basic concepts on adding, subtracting, multiplying, and dividing integers

KEY TO CORRECTION: BC ADDITION OF INTEGERS – LEVEL 4

Directions: Find the sum of the given integers. Formulate generalization on how to add integers when the higher absolute number is negative.

1. $5 + (-7) =$

2. $2 + (-8) =$

3. $2 + (-3) =$

4. $3 + (-5) =$

5. $4 + (-9) =$

6. $7 + (-8) =$

7. $3 + (-7) =$

8. $2 + (-9) =$

9. $5 + (-6) =$

10. $8 + (-9) =$

11. $7 + (-9) =$

12. $8 + (-9) =$

13. $5 + (-6) =$

14. $3 + (-7) =$

15. $2 + (-8) =$

16. $2 + (-7) =$

17. $6 + (-10) =$

18. $5 + (-8) =$

19. $4 + (-7) =$

20. $0 + (-2) =$



IN ADDING UNLIKE SIGN, SIMPLY GET THE DIFFERENCE, THEN **COPY THE SIGN OF THE GREATER ABSOLUTE VALUE.**



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PREREQUISITE SKILLS: Familiarize and master basic concepts on adding, subtracting, multiplying, and dividing integers

KEY TO CORRECTION: BC ADDITION OF INTEGERS – LEVEL 5

Directions: Find the sum of the given integers. Formulate generalization on how to **add integers with mixed signed numbers**.

1. $5 + 9 =$

2. $(-2) + (-7) =$

3. $2 + (-8) =$

4. $(-9) + 5 =$

5. $4 + 9 =$

6. $3 + (-8) =$

7. $(-4) + 7 =$

8. $(-5) + (-9) =$

9. $7 + (-6) =$

10. $(-8) + 6 =$

11. $2 + 1 =$

12. $(-8) + (-1) =$

13. $5 + (-4) =$

14. $(-2) + 1 =$

15. $6 + (-2) =$

16. $(-2) + 4 =$

17. $6 + 1 =$

18. $(-5) + (-3) =$

19. $3 + (-4) =$

20. $(0) + (4) =$

INSIGHTS:

1. IN ADDING BOTH POSITIVE INTEGERS, I HAVE LEARNED THAT I WILL **JUST ADD THE NUMBERS, THE SIGN WILL BE AUTOMATICALLY POSITIVE AND MAY NOT BE INDICATED.**
2. IN ADDING BOTH NEGATIVE INTEGERS, I HAVE LEARNED THAT I WILL **JUST ADD ADD THE NUMBERS AND COPY THE NEGATIVE SIGN.** NUMBERS AND COPY THE SIGN. SINCE THE SIGN IS NEGATIVE, IT SHOULD BE USED AND INDICATED TO EXPRESS THE SUM OF THE GIVEN EQUATION.
3. IN ADDING UNLIKE SIGN, SIMPLY GET THE DIFFERENCE, THEN COPY THE SIGN OF THE GREATER ABSOLUTE VALUE.



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NUMERACY INTERVENTION MATERIALS FOR KEY STAGES 2-4 MATHEMATICS
REAL TIME: GRADE 7 TERM: 1 CONTENT: *Numbers and Number Sense*
CONTENT STANDARD: *Demonstrate key concepts of the real number system*
Learning Competency: *Performs Fundamental Operations on Integers- M7NS-1c-d-1*
Prerequisite: *Familiarize and master basic concepts on adding, subtracting, multiplying, and dividing integers*

SITUATIONAL ANALYSIS: Application on basic concepts in Performing Fundamental Operations of Integers into real life situations

SITUATIONAL ANALYSIS: PROBLEMS USING THE CONCEPTS OF PERFORMING FUNDAMENTAL OPERATIONS OF INTEGERS-LEVEL 6

Name of Student: _____
Grade and Section: _____

PRE TEST SCORE _____
POST TEST SCORE _____

Directions: Read the problem carefully and solve as directed.

Example 1: Find *two consecutive EVEN integers/numbers* whose sum is equal to 98.

Solution to Problem-Step 1: Prove that $x + (x + 2) = 98$

Let $x = 1^{\text{st}}$ Even Number

$x + 2 = 2^{\text{nd}}$ Even Number

Step 2: EQUATE the fact that the sum of *two consecutive EVEN integers/numbers* is equal to 98.

$$x + (x + 2) = 98$$

Step 3: Solve for x : 1^{st} Number

$$x + (x + 2) = 98$$

$$2x + 2 = 98$$

$$2x = 98 - 2$$

$$2x = 96$$

$$x = 48, \text{ the } 1^{\text{st}} \text{ Even Number}$$

Step 4: Solve for 2^{nd} number using $(x + 2)$

$$48 + 2 = 50, \text{ the } 2^{\text{nd}} \text{ Even Number}$$

Step 5: CHECK IF $x = 48$, and $x + 2 = 50$, and the sum is 98.

$$48 + 50 = 98$$

$$98 = 98$$

Therefore, the two consecutive EVEN/numbers are *48 and 50*, and the sum is 98.

Example 2: Find *two consecutive ODD integers/numbers* whose sum is equal to 92.

Solution to Problem-Step 1: Prove that $x + (x + 2) = 92$

Let $x = 1^{\text{st}}$ Number

$x + 2 = 2^{\text{nd}}$ Number

Step 2: EQUATE the fact that the sum of *two consecutive ODD integers/numbers* is equal to 92.

$$x + (x + 2) = 92$$

Step 3: Solve for x : 1^{st} Number

$$x + (x + 2) = 92$$

$$2x + 2 = 92$$

$$2x = 92 - 2$$

$$2x = 90$$

$$x = 45, \text{ the } 1^{\text{st}} \text{ Number}$$

Step 4: Solve for 2^{nd} number using $(x + 2)$

$$45 + 2 = 47, \text{ the } 2^{\text{nd}} \text{ Number}$$

Step 5: CHECK IF $x = 45$, and $x + 2 = 47$

$$45 + 47 = 92$$

$$92 = 92$$

Therefore, the two consecutive ODD integers/numbers are *45 and 47*, and the sum is 92.



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SITUATIONAL ANALYSIS: PROBLEMS USING THE CONCEPTS OF PERFORMING FUNDAMENTAL OPERATIONS OF INTEGERS-LEVEL 6

Name of Student: _____
Grade and Section: _____

PRE TEST SCORE _____
POST TEST SCORE _____

Directions: Read the problem carefully and solve as directed.

Problem 1: Find two consecutive EVEN integers/numbers whose sum is equal 114.

Problem 2: Find two consecutive EVEN integers/numbers whose sum is 218.

Problem 3: Find two consecutive ODD integers/numbers whose sum is equal 304.

Problem 4. Find two consecutive ODD integers/numbers whose sum is 348.

INSIGHTS:

Percent of Numeracy: _____ Level of Numeracy: _____ Speed of Accuracy: _____



Prepared by:

Assessed by:

Teachers/ Parents Comments and Suggestions:

Teacher's Signature

Parent's Signature





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REAL TIME: **GRADE 7** TERM: **1** CONTENT: *Numbers and Number Sense*

CONTENT STANDARD: *Demonstrate key concepts of the real number system*

Learning Competency: *Performs Fundamental Operations on Integers- M7NS-Ic-d-1*

Prerequisite: *Familiarize and master basic concepts on adding, subtracting, multiplying, and dividing integers*

SITUATIONAL ANALYSIS: Application on basic concepts in Performing Fundamental Operations of Integers into real life situations

ANSWER KEY FOR SITUATIONAL ANALYSIS: PROBLEMS USING THE CONCEPTS OF PERFORMING FUNDAMENTAL OPERATIONS OF INTEGERS-LEVEL 7

Directions: Read the problem carefully and solve as directed.

Problem 1: Find *two consecutive EVEN integers/numbers* whose sum is equal to 114.

Solution to Problem-Step 1: Prove that $x + (x + 2) = 114$

Let $x = 1^{\text{st}}$ even number

$x + 2 = 2^{\text{nd}}$ even number

Step 2: EQUATE the fact that the sum of *two consecutive EVEN integers/numbers* is equal to 114.

$$x + (x + 2) = 114$$

Step 3: Solve for x : 1^{st} Number

$$x + (x + 2) = 114$$

$$2x + 2 = 114$$

$$2x = 114 - 2$$

$$2x = 112$$

$$x = 56, \text{ the } 1^{\text{st}} \text{ Even Number}$$

Step 4: Solve for 2^{nd} number using $(x + 2)$

$$56 + 2 = 58, \text{ the } 2^{\text{nd}} \text{ Even Number}$$

Step 5: CHECK IF $x = 56$, and $x + 2 = 57$ and the sum is 114.

$$56 + 58 = 114$$

$$114 = 114$$

Therefore, the two consecutive EVEN/numbers are *56 and 58*, and the sum is 114.

INSIGHTS: In finding the two consecutive EVEN integers or numbers whose sum is 114, consider the following steps:

Step 1: Prove that $x + (x + 2) = 114$

Step 2: EQUATE the fact that the sum of *two consecutive EVEN integers/numbers* is equal to 114.

Step 3: Solve for x to get the 1^{st} Even number.

Step 4: Add 2 from the 1^{st} Even Number to get the 2^{nd} Even number.

Step 5: Check IF the sum of the 1^{st} Even number and 2^{nd} Even number is equal to the given sum which is 114.



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CONTENT STANDARD: *Demonstrate key concepts of the real number system*

Learning Competency: *Performs Fundamental Operations on Integers- M7NS-1c-d-1*

Prerequisite: *Familiarize and master basic concepts on adding, subtracting, multiplying, and dividing integers*

SITUATIONAL ANALYSIS: Application on basic concepts in Performing Fundamental Operations of Integers into real life situations

ANSWER KEY FOR SITUATIONAL ANALYSIS: PROBLEMS USING THE CONCEPTS OF PERFORMING FUNDAMENTAL OPERATIONS OF INTEGERS-LEVEL 7

Directions: Read the problem carefully and solve as directed.

Problem 2: Find *two consecutive EVEN integers/numbers* whose sum is equal to 218.

Solution to Problem-Step 1: Prove that $x + (x + 2) = 218$

Let $x = 1^{\text{st}}$ Even Number

$x + 2 = 2^{\text{nd}}$ Even Number

Step 2: EQUATE the fact that the sum of *two consecutive EVEN integers/numbers* is equal to 218.

$$x + (x + 2) = 218$$

Step 3: Solve for x : 1^{st} Even Number

$$x + (x + 2) = 218$$

$$2x + 2 = 218$$

$$2x = 218 - 2$$

$$2x = 216$$

$$x = 108, \text{ the } 1^{\text{st}} \text{ Even Number}$$

Step 4: Solve for 2^{nd} number using $(x + 2)$

$$108 + 2 = 110, \text{ the } 2^{\text{nd}} \text{ Even Number}$$

Step 5: CHECK IF $x = 108$ and $x + 2 = 110$, and the sum is 218

$$108 + 110 = 218$$

$$218 = 218$$

Therefore, the two consecutive EVEN/numbers are *108 and 110* and the sum is 218.

INSIGHTS: In finding the two consecutive EVEN integers or numbers whose sum is 218, consider the following steps:

Step 1: Prove that $x + (x + 2) = 218$

Step 2: EQUATE the fact that the sum of *two consecutive EVEN integers/numbers* is equal to the given sum.

Step 3: Solve for x to get the 1^{st} Even number.

Step 4: Add 2 from the 1^{st} Even Number to get the 2^{nd} Even number.

Step 5: Check IF the sum of the 1^{st} Even and 2^{nd} Even numbers is equal to the given sum which is 218.



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CONTENT STANDARD: *Demonstrate key concepts of the real number system*
Learning Competency: *Performs Fundamental Operations on Integers- M7NS-Ic-d-1*
Prerequisite: *Familiarize and master basic concepts on adding, subtracting, multiplying, and dividing integers*
SITUATIONAL ANALYSIS: Application on basic concepts in Performing Fundamental Operations of integers into real life situations

ANSWER KEY FOR SITUATIONAL ANALYSIS: PROBLEMS USING THE CONCEPTS OF PERFORMING FUNDAMENTAL OPERATIONS OF INTEGERS-LEVEL 6

Directions: Read the problem carefully and solve as directed.

Problem 3: Find *two consecutive ODD integers/numbers* whose sum is equal to 304.

Solution to Problem-Step 1: Prove that $x + (x + 2) = 304$

Let $x = 1^{\text{st}}$ Odd Number

$x + 2 = 2^{\text{nd}}$ Odd Number

Step 2: EQUATE the fact that the sum of *two consecutive ODD integers/numbers* is equal to 304.

$$x + (x + 2) = 304$$

Step 3: Solve for x : 1^{st} Odd Number

$$x + (x + 2) = 304$$

$$2x + 2 = 304$$

$$2x = 304 - 2$$

$$2x = 302$$

$$x = 151, \text{ the } 1^{\text{st}} \text{ Odd Number}$$

Step 4: Solve for 2^{nd} number using $(x + 2)$

$$151 + 2 = 153, \text{ the } 2^{\text{nd}} \text{ Odd Number}$$

Step 5: CHECK IF $x = 151$ and $x + 2 = 153$, and the sum is 304

$$151 + 153 = 304$$

$$304 = 304$$

Therefore, the two consecutive ODD/numbers are *151 and 153* and the sum is 304.

INSIGHTS: In finding the two consecutive ODD integers or numbers whose sum is 304, consider the following steps:

Step 1: Prove that $x + (x + 2) = 304$

Step 2: EQUATE the fact that the sum of *two consecutive ODD integers/numbers* is equal to 304.

Step 3: Solve for x to get the 1^{st} ODD number.

Step 4: Add 2 from the 1^{st} ODD Number to get the 2^{nd} ODD number.

Step 5: Check IF the sum of the 1^{st} and 2^{nd} ODD numbers is equal to the given number which is 304.



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NUMERACY INTERVENTION MATERIALS FOR KEY STAGES 2-4 MATHEMATICS

REAL TIME: GRADE 7 TERM: 1 CONTENT: Numbers and Number Sense

CONTENT STANDARD: Demonstrate key concepts of the real number system

Learning Competency: Performs Fundamental Operations on Integers- M7NS-1c-d-1

Prerequisite: Familiarize and master basic concepts on adding, subtracting, multiplying, and dividing integers

ANSWER KEY: SITUATIONAL PROBLEMS USING THE CONCEPTS OF PERFORMING FUNDAMENTAL OPERATIONS OF INTEGERS- LEVEL 6-

<p>Problem 1: Find two consecutive EVEN integer whose sum is equal 114. Solution: Let x = 1st Even Number $x + 2$ = 2nd Even Number Use the fact that their sum is equal to 112 to write the equation $x + (x + 2) = 112$</p> <p>Solve for x : $x + (x + 2) = 114$ $2x + 2 = 114$ $2x = 114 - 2$ $2x = 112$ $x = 56$, the 1st Number $x + 2 = 58$, the 2nd Number</p> <p>Check: $x + (x + 2) = 114$ $56 + 58 = 114$ $114 = 114$</p> <p>Therefore, the two consecutive Even numbers are 56 and 58 and the sum is 114.</p>	<p>Problem 2: Find two consecutive EVEN integer whose sum is equal 218. Solution: Let x = 1st Even Number $x + 2$ = 2nd Even Number Use the fact that their sum is equal to 112 to write the equation $x + (x + 2) = 218$</p> <p>Solve for x : $x + (x + 2) = 218$ $2x + 2 = 218$ $2x = 218 - 2$ $2x = 216$ $x = 108$, the 1st Number $x + 2 = 110$, the 2nd Number</p> <p>Check: $x + (x + 2) = 218$ $108 + 110 = 218$ $218 = 218$</p> <p>Therefore, the two consecutive Even numbers are 108 and 110 and the sum is 218.</p>	<p>Problem 3: Find two consecutive ODD integer whose sum is equal 304. Solution: Let x = 1st Odd Number $x + 2$ = 2nd Odd Number Use the fact that their sum is equal to 112 to write the equation $x + (x + 2) = 304$</p> <p>Solve for x : $x + (x + 2) = 304$ $2x + 2 = 304$ $2x = 304 - 2$ $2x = 302$ $x = 151$, the 1st Number $x + 2 = 153$, the 2nd Number</p> <p>Check: $x + (x + 2) = 302$ $151 + 153 = 302$ $304 = 304$</p> <p>Therefore, the two consecutive Odd numbers are 151 and 153 and the sum is 304.</p>
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Consider the following steps in finding two consecutive EVEN or ODD integers or numbers whose sum is equal to specific number:



1. represent the first EVEN or ODD number/integer by x .
2. represent the second EVEN or ODD number/integer by $x + 2$.
3. equate the first and second number to given specific number.
4. solve for the value of the first and second consecutive Even/Odd numbers using x and $x + 2$ respectively
5. check if the sum of the first and second consecutive EVEN/Odd numbers is equal to a given specific number.



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CONTENT STANDARD: *Demonstrate key concepts of the real number system*
Learning Competency: Performs Fundamental Operations on Integers- M7NS-Ic-d-1
Prerequisite: *Familiarize and master basic concepts on adding, subtracting, multiplying, and dividing integers*
SITUATIONAL ANALYSIS: Application on basic concepts in Performing Fundamental Operations of Integers into real life situations

ANSWER KEY FOR SITUATIONAL ANALYSIS: PROBLEMS USING THE CONCEPTS OF PERFORMING FUNDAMENTAL OPERATIONS OF INTEGERS-LEVEL 6

Directions: Read the problem carefully and solve as directed.

Problem 4: Find *two consecutive ODD integers/numbers* whose sum is equal to 348.

Solution to Problem-Step 1: Prove that $x + (x + 2) = 348$

Let $x = 1^{\text{st}}$ Odd Number

$x + 2 = 2^{\text{nd}}$ Odd Number

Step 2: EQUATE the fact that the sum of *two consecutive ODD integers/numbers* is equal to 348.

$$x + (x + 2) = 348$$

Step 3: Solve for x : 1^{st} Odd Number

$$x + (x + 2) = 348$$

$$2x + 2 = 348$$

$$2x = 348 - 2$$

$$2x = 346$$

$$x = 173, \text{ the } 1^{\text{st}} \text{ Odd Number}$$

Step 4: Solve for 2^{nd} Odd number using $(x + 2)$

$$173 + 2 = 175, \text{ the } 2^{\text{nd}} \text{ Odd Number}$$

Step 5: CHECK IF $x = 173$ and $x + 2 = 175$, and the sum is 348

$$173 + 175 = 348$$

$$348 = 348$$

Therefore, the two consecutive ODD/numbers are *173 and 175* and the sum is 348.

INSIGHTS: In finding the two consecutive ODD integers or numbers whose sum is 348, consider the following steps:

Step 1: Prove that $x + (x + 2) = 348$

Step 2: EQUATE the fact that the sum of *two consecutive ODD integers/numbers* is equal to 348.

Step 3: Solve for x to get the 1^{st} Odd number.

Step 4: Add 2 from the 1^{st} Number to get the 2^{nd} Odd number.

Step 5: Check IF the sum of the 1^{st} and 2^{nd} numbers is equal to the given number which is 348.



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CONTENT STANDARD: *Demonstrate key concepts of the real number system*

Learning Competency: *Performs Fundamental Operations on Integers- M7NS-Ic-d-1*

Prerequisite: *Familiarize and master basic concepts on adding, subtracting, multiplying, and dividing integers*

SITUATIONAL ANALYSIS: Application on basic concepts in Performing Fundamental Operations of Integers into real life situations

SITUATIONAL ANALYSIS: PROBLEMS USING THE CONCEPTS OF PERFORMING FUNDAMENTAL OPERATIONS OF INTEGERS-LEVEL 7

Name of Student: _____

PRE TEST SCORE _____

Grade and Section: _____

POST TEST SCORE _____

Directions: Read the problem carefully and solve as directed.

Example: Find *three consecutive ODD integers/numbers* whose sum is equal to 123.

Solution to Problem: Prove that $x + (x + 2) + (x + 4) = 123$

Let $x = 1^{\text{st}}$ Number

$(x + 2) = 2^{\text{nd}}$ Number

$(x + 4) = 3^{\text{rd}}$ Number

EQUATE the fact that the sum of *three consecutive ODD integers/numbers* is equal to 120.

$$x + (x + 2) + (x + 4) = 123$$

Step 1: Solve for x : 1^{st} number

$$x + (x + 2) + (x + 4) = 123$$

$$3x + 6 = 123$$

$$3x = 123 - 6$$

$$3x = 117$$

$$x = 39 \text{ the } 1^{\text{st}} \text{ Number}$$

Step 2: Solve for the 2^{nd} number using $(x + 2)$

$$39 + 2 = 41, \text{ the } 2^{\text{nd}} \text{ Number}$$

Step 3: Solve for the 3^{rd} number using $(x + 4)$

$$39 + 4 = 43, \text{ the } 3^{\text{rd}} \text{ Number}$$

Step 4: CHECK using $x + (x + 2) + (x + 4) = 123$

$$39 + 41 + 43 = 123$$

Therefore, the three consecutive ODD integers/numbers whose sum is equal to 123 are 39, 41, and 43.

Application: Work for the following problems.

Problem 1: Find three consecutive ODD integers whose sum is equal 255.

Problem 2. Find three consecutive EVEN integers whose sum is 432.

INSIGHTS: IN ADDITION OF NEGATIVE INTEGERS, I HAVE LEARNED THAT.....

Percent of Numeracy: _____ Level of Numeracy: _____ Speed of Accuracy: _____



Prepared by: _____

Assessed by: _____

Teachers/ Parents Comments and Suggestions: _____

 Teacher's Signature

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SITUATIONAL ANALYSIS: Application on basic concepts in Performing Fundamental Operations of Integers into real life situations

ANSWER KEY: SITUATIONAL ANALYSIS: PROBLEMS USING THE CONCEPTS OF PERFORMING FUNDAMENTAL OPERATIONS OF INTEGERS-LEVEL 7

Problem 1: Find *three consecutive ODD integers/numbers* whose sum is equal to 255.

Solution to Problem: Prove that $x + (x + 2) + (x + 4) = 255$

Let $x = 1^{\text{st}}$ Odd Number

$(x + 2) = 2^{\text{nd}}$ Odd Number

$(x + 4) = 3^{\text{rd}}$ Odd Number

EQUATE the fact that the sum of *three consecutive ODD integers/numbers* is equal to 255

$$x + (x + 2) + (x + 4) = 255$$

Step 1: Solve for x : 1^{st} odd number

$$x + (x + 2) + (x + 4) = 255$$

$$3x + 6 = 255$$

$$3x = 255 - 6$$

$$3x = 249$$

$$x = 83 \text{ the } 1^{\text{st}} \text{ Odd Number}$$

Step 2: Solve for the 2^{nd} odd number using $(x + 2)$

$$83 + 2 = 85, \text{ the } 2^{\text{nd}} \text{ odd number}$$

Step 3: Solve for the 3^{rd} odd number using $(x + 4)$

$$83 + 4 = 87, \text{ the } 3^{\text{rd}} \text{ odd Number}$$

Step 4: CHECK using $x + (x + 2) + (x + 4) = 255$

$$83 + 85 + 87 = 255$$

Therefore, the three consecutive ODD integers/numbers whose sum is equal to 255 are **83, 85, and 87**.

Problem 2. Find three consecutive EVEN integers whose sum is 432.

Solution to Problem: Prove that $x + (x + 2) + (x + 4) = 432$

Let $x = 1^{\text{st}}$ Even Number

$(x + 2) = 2^{\text{nd}}$ Even Number

$(x + 4) = 3^{\text{rd}}$ Even Number

EQUATE the fact that the sum of *three consecutive EVEN integers/numbers* is equal to 432

$$x + (x + 2) + (x + 4) = 432$$

Step 1: Solve for x : 1^{st} Even number

$$x + (x + 2) + (x + 4) = 432$$

$$3x + 6 = 432$$

$$3x = 432 - 6$$

$$3x = 426$$

$$x = 142, \text{ the } 1^{\text{st}} \text{ Even Number}$$

Step 2: Solve for the 2^{nd} Even number using $(x + 2)$

$$142 + 2 = 144, \text{ the } 2^{\text{nd}} \text{ Even number}$$

Step 3: Solve for the 3^{rd} Even number using $(x + 4)$

$$142 + 4 = 146, \text{ the } 3^{\text{rd}} \text{ Even Number}$$

Step 4: CHECK using $x + (x + 2) + (x + 4) = 432$

$$142 + 144 + 146 = 432$$

Therefore, the three consecutive Even integers/numbers whose sum is equal to 432 are **142, 144, and 146**.

INSIGHTS: In finding the three consecutive ODD/EVEN integers or numbers whose sum is given, consider the following steps:

Step 1: Prove that $x + (x + 2) + (x + 4)$ is equal to the given sum

Step 2: EQUATE the fact that the sum of *three consecutive ODD/EVEN integers/numbers* is equal to the given number.

Step 3: Solve for x to get the 1^{st} Odd number.

Step 4: Add 2 from the 1^{st} Odd Number to get the 2^{nd} Odd number.

Step 5: Add 4 from the 1^{st} Odd Number to get the 3^{rd} Odd number.

Step 6: Check IF the sum of the $1^{\text{st}}, 2^{\text{nd}}$ and 3^{rd} numbers is equal to the given number which is 432.



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SITUATIONAL ANALYSIS: PROBLEMS USING THE CONCEPTS OF PERFORMING FUNDAMENTAL OPERATIONS OF INTEGERS-LEVEL 8

Name of Student: _____
 Grade and Section: _____

PRE TEST SCORE _____
 POST TEST SCORE _____

Directions: Read the problem carefully and solve as directed.

Example 1a:
 The sum of 5 times a number and 8 is 48.
 Find the number.
 Step 1: Translate the given word problem into the equation: $5x + 8 = 48$
 Solution: Let x be the number

$$\begin{aligned} 5x + 8 &= 48 \\ 5x &= 48 - 8 \\ 5x &= 40 \\ x &= 8 \end{aligned}$$

Therefore, the number is 8.

OR

Example 1b:
 The sum of 5 times a number increased by 8 is 48. Find the number.
 Step 1: Translate the given word problem into the equation: $5x + 8 = 48$
 Solution: Let x be the number

$$\begin{aligned} 5x + 8 &= 48 \\ 5x &= 48 - 8 \\ 5x &= 40 \\ x &= 8 \end{aligned}$$

Therefore, the number is 8.

Application: Work for the following word problems.

Problem 1: The sum of thrice is a number and 12 is 120. Find the number.

Problem 2: The sum of 4 times a number increased by 25 is 245. Find the number.

INSIGHTS: IN ADDITION OF NEGATIVE INTEGERS, I HAVE LEARNED THAT.....

Percent of Numeracy: _____ Level of Numeracy: _____ Speed of Accuracy: _____



Prepared by: _____

Assessed by: _____

Teachers/ Parents Comments and Suggestions:

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REAL TIME: GRADE 7 TERM: 1 CONTENT: *Numbers and Number Sense*

CONTENT STANDARD: *Demonstrate key concepts of the real number system*

Learning Competency: *Performs Fundamental Operations on Integers- M7NS-Ic-d-1*

Prerequisite: *Familiarize and master basic concepts on adding, subtracting, multiplying, and dividing integers*

SITUATIONAL ANALYSIS: Application on basic concepts in Performing Fundamental Operations of Integers into real life situations

ANSWER KEY: SITUATIONAL ANALYSIS: PROBLEMS USING THE CONCEPTS OF PERFORMING FUNDAMENTAL OPERATIONS OF INTEGERS-LEVEL 8

Application: Work for the following word problems.

Solution to Problem 1:

The sum of thrice a number and 12 is 120.
Find the number.

Step 1: Translate the given word problem into the equation: $3x + 12 = 120$

Solve for x :

$$3x = 120 - 12$$

$$3x = 108$$

$$x = \frac{108}{3}$$

$$x = 36$$

Step 2: Substitute the value of x in the given equation to CHECK IF the number is CORRECT.

$$\text{Let } x = 36$$

$$3x + 12 = 120$$

$$3(36) + 12 = 120$$

$$108 + 12 = 120$$

$$120 = 120$$

Therefore, the number is 36.

Solution to Problem 2:

The sum of 4 times a number increased by 25 is 245. Find the number.

Step 1: Translate the given word problem into the equation: $4x + 25 = 245$

Solve for x :

$$4x = 245 - 25$$

$$4x = 220$$

$$x = \frac{220}{4}$$

$$x = 55$$

Step 2: Substitute the value of x in the given equation to CHECK IF the number is CORRECT.

$$\text{Let } x = 55$$

$$4x + 25 = 245$$

$$4(55) + 25 = 245$$

$$220 + 25 = 245$$

$$245 = 245$$

Therefore, the number is 55.

INSIGHTS: In solving worded problems, translate mathematical expression and equate to the given number. Check the obtained number to verify the result.



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NUMERACY INTERVENTION MATERIALS FOR KEY STAGES 2-4 MATHEMATICS
 REAL TIME: GRADE 7 TERM: 1 CONTENT: *Numbers and Number Sense*
 CONTENT STANDARD: *Demonstrate key concepts of the real number system*
 Learning Competency: *Performs Fundamental Operations on Integers- M7NS-Ic-d-1*
 Prerequisite: *Familiarize and master basic concepts on adding, subtracting, multiplying, and dividing integers*

SITUATIONAL ANALYSIS: Application on basic concepts in Performing Fundamental Operations of Integers into real life situations

SITUATIONAL ANALYSIS: PROBLEMS USING THE CONCEPTS OF PERFORMING FUNDAMENTAL OPERATIONS OF INTEGERS-LEVEL 9

Name of Student: _____
 Grade and Section: _____

PRE TEST SCORE _____
 POST TEST SCORE _____

Directions: Read the problem carefully and solve as directed.

Example 1: One number *exceeds/increases* another number by 5, the sum of two numbers is 39, find the *smaller* number.

Solution: Let x = first number
 $x + 5$ = second number
 $x + x + 5 = 39$
 $2x = 39 - 5$
 $2x = 34$
 $x = \frac{34}{2}$
 $x = 17$, the first number
 $x + 5 = 22$, the second number

Therefore, the first number is 17 and the second number is 22. Thus, the smaller number is 17.

Example 2: A number is *diminished/decreased* another number by 5, the sum of two numbers is 39, find the *larger* number.

Solution: Let x = first number
 $x - 5$ = second number
 $x + x - 5 = 39$
 $2x = 39 + 5$
 $2x = 44$
 $x = \frac{44}{2}$
 $x = 22$, the first number
 $x - 5 = 17$, the second number

Therefore, the first number is 22 and the second number is 17. Thus, the larger number is 22.

Application: Work for the following word problems.

Problem 1: One number exceeds/increases another number by 12, the sum of the numbers is 48, Find the smaller number.

Problem 2: A number is diminished/decreased another number by 12. If the sum of the numbers is 48, find the larger number.

INSIGHTS: IN ADDITION OF NEGATIVE INTEGERS, I HAVE LEARNED THAT.....

Percent of Numeracy: _____ Level of Numeracy: _____ Speed of Accuracy: _____

Prepared by: _____

Assessed by: _____

Teachers/ Parents Comments and Suggestions:

Teacher's Signature _____

Parent's Signature _____



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NUMERACY INTERVENTION MATERIALS FOR KEY STAGES 2-4 MATHEMATICS
 REAL TIME: GRADE 7 TERM: 1 CONTENT: *Numbers and Number Sense*
 CONTENT STANDARD: *Demonstrate key concepts of the real number system*
 Learning Competency: *Performs Fundamental Operations on Integers- M7NS-Ic-d-1*
 Prerequisite: *Familiarize and master basic concepts on adding, subtracting, multiplying, and dividing integers*
 SITUATIONAL ANALYSIS: Application on basic concepts in Performing Fundamental Operations of Integers into real life situations

ANSWER KEY FOR SITUATIONAL ANALYSIS: PROBLEMS USING THE CONCEPTS OF PERFORMING FUNDAMENTAL OPERATIONS OF INTEGERS-LEVEL 9

Directions: Read the problem carefully and solve as directed.

Problem 1: One number *exceeds/increases* another number by 12, the sum of two numbers is 48, find the *smaller* number.

Solution: Let x = first number
 $x + 5$ = second number
 $x + x + 12 = 48$
 $2x + 5 = 39$
 $2x = 39 - 5$
 $2x = 34$
 $x = \frac{34}{2}$
 $x = 17$, the 1st number
 $x + 5 = 22$, the 2nd number
 Therefore, the first number is 17 and the second number is 22. Thus, the ***smaller number is 17.***

Problem 2: A number is *diminished/decreased* another number by 12, the sum of two numbers is 48, find the *larger* number.

Solution: Let x = first number
 $x + 5$ = second number
 $x + x - 5 = 39$
 $2x - 5 = 39$
 $2x = 39 + 5$
 $2x = 44$
 $x = \frac{44}{2}$
 $x = 22$, the 1st number
 $x - 5 = 17$, the 2nd number
 Therefore, the first number is 22 and the second number is 17. Thus, the ***larger number is 22.***

INSIGHTS: IN ADDITION OF NEGATIVE INTEGERS, I HAVE LEARNED THAT.....



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NUMERACY INTERVENTION MATERIALS FOR KEY STAGES 2-4 MATHEMATICS

REAL TIME: GRADE 7 TERM: 1 CONTENT: *Numbers and Number Sense*

CONTENT STANDARD: *Demonstrate key concepts of the real number system*

Learning Competency: *Performs Fundamental Operations on Integers- M7NS-Ic-d-1*

Prerequisite: *Familiarize and master basic concepts on adding, subtracting, multiplying, and dividing integers*

SITUATIONAL ANALYSIS/PISA-LIKE QUESTIONS: Application on basic concepts in Performing Fundamental Operations of Integers into real life situations

SITUATIONAL ANALYSIS/PISA LIKE TEST USING THE CONCEPTS OF PERFORMING FUNDAMENTAL OPERATIONS OF INTEGERS: LEVEL 10

Name of Student: _____

PRE TEST SCORE _____

Grade and Section: _____

POST TEST SCORE _____

Directions: Read the problem carefully and solve as directed.

PISA-LIKE Mathematics Assessment Involving Integers: Freezer/Frozen Storage Temperature

Example 1: A supermarket keeps frozen goods in a storage room.

At 6:00 AM the temperature was -15°C .

Every hour, the temperature changed as shown in the table:

Time	Change
7:00 AM	+ 2°C
8:00 AM	+ 3°C
9:00 AM	- 1°C
10:00 AM	+ 1°C
11:00 AM	+ 2°C

Use the information on the table to answer the questions:

- What was the temperature at **10:00 AM**?
- At what time was the temperature **warmest**?
- If the products must **stay at or below -5°C** , explain whether the goods are still safe at the warmest time.

Solution: Step-by-step temperature tracking

- 6:00 AM: -15°C
- 7:00 AM: $-15^{\circ}\text{C} + 2^{\circ}\text{C} = -13^{\circ}\text{C}$
- 8:00 AM: $-13^{\circ}\text{C} + 3^{\circ}\text{C} = -10^{\circ}\text{C}$
- 9:00 AM: $-10^{\circ}\text{C} - 1^{\circ}\text{C} = -11^{\circ}\text{C}$
- 10:00 AM: $-11^{\circ}\text{C} + 1^{\circ}\text{C} = -10^{\circ}\text{C}$
- 11:00 AM: $-10^{\circ}\text{C} + 2^{\circ}\text{C} = -8^{\circ}\text{C}$

Answers:

- Temperature at 10:00 AM: -10°C**
- Warmest time:** The warmest temperature is -8°C , which happened at **11:00 AM**.
- Are the products still safe?**
 - Yes – the **warmest temperature is -8°C** , which is **not above** the limit. Since the rule is “at or below -5°C ,” the products are **still safe**, but just at the threshold.

Problem 1: A supermarket keeps frozen goods in a storage room.

At 1:00 PM the temperature was -10°C .

Every hour, the temperature changed as shown in the table:

Time	Change
2:00 PM	+ 4°C
3:00 PM	+ 5°C
4:00 PM	- 3°C
5:00 PM	+ 3°C
6:00 PM	+ 2°C

Use the information on the table to answer the questions:

- What was the temperature at **4:00 PM**?
- At what time was the temperature **warmest**?
- If the products must stay at or below -7°C , explain whether the goods are still safe at the warmest time.



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NUMERACY INTERVENTION MATERIALS FOR KEY STAGES 2-4 MATHEMATICS

REAL TIME: **GRADE 7** QUARTER: **1** TERM 1: *Numbers and Number Sense*

CONTENT STANDARD: *Demonstrate key concepts of the real number system*

Learning Competency: *Performs Fundamental Operations on Integers- M7NS-1c-d-1*

Prerequisite: *Familiarize and master basic concepts on adding, subtracting, multiplying, and dividing integers*

SITUATIONAL ANALYSIS/PISA-LIKE QUESTIONS: Application on basic concepts in Performing Fundamental Operations of Integers into real life situations

ANSWER KEY SITUATIONAL ANALYSIS/PISA LIKE TEST USING THE CONCEPTS OF PERFORMING FUNDAMENTAL OPERATIONS OF INTEGERS: LEVEL 10

Name of Student: _____

PRE TEST SCORE _____

Grade and Section: _____

POST TEST SCORE _____

Directions: Read the problem carefully and solve as directed.

PISA-LIKE Mathematics Assessment Involving Integers: Freezer/Frozen Storage Temperature

Problem 1: A supermarket keeps frozen goods in a storage room.

At 1:00 PM the temperature was -10°C .

Every hour, the temperature changed as shown in the table:

Time	Change
2:00 PM	+ 4°C
3:00 PM	+ 5°C
4:00 PM	- 3°C
5:00 PM	+ 2°C
6:00 PM	- 1°C

Use the information on the table to answer the questions:

- What was the temperature at 4:00 PM?
- At what time was the temperature **warmest**?
- If the products must **stay at or below -7°C** , explain whether the goods are still safe at the warmest time.

Solution: Step-by-step temperature tracking

- 1:00 PM: -10°C
- 2:00 PM: $-10^{\circ}\text{C} + 4^{\circ}\text{C} = -6^{\circ}\text{C}$
- 3:00 PM: $-6^{\circ}\text{C} + 5^{\circ}\text{C} = -1^{\circ}\text{C}$
- 4:00 PM: $-1^{\circ}\text{C} - 3^{\circ}\text{C} = -4^{\circ}\text{C}$
- 5:00 PM: $-4^{\circ}\text{C} + 2^{\circ}\text{C} = -2^{\circ}\text{C}$
- 6:00 PM: $-2^{\circ}\text{C} - 1^{\circ}\text{C} = -3^{\circ}\text{C}$

Answers:

- Temperature at 4:00 PM: -4°C**
- Warmest time:** The warmest temperature is -1°C , which happened at 3:00 PM.
- Are the products still safe?**
 - Yes – the **warmest temperature is -1°C** , which is **not above** the limit.
Since the rule is “at or below -7°C ,” the products are **still safe**, but just at the threshold.

INSIGHTS: In answering PISA -LIKE Test involving integers, I have learned that it is very essential to master the fundamental concepts on the operations of integers. Analyze the given situation and apply knowledge on adding and subtracting integers.



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NUMERACY INTERVENTION MATERIALS FOR KEY STAGES 2-4 MATHEMATICS

REAL TIME: GRADE 7 TERM: 1 CONTENT: *Numbers and Number Sense*

CONTENT STANDARD: *Demonstrate key concepts of the real number system*

Learning Competency: *Performs Fundamental Operations on Integers- M7NS-Ic-d-1*

Prerequisite: *Familiarize and master basic concepts on adding, subtracting, multiplying, and dividing integers*

SITUATIONAL ANALYSIS/SEA-PLM LIKE QUESTIONS: Application on basic concepts in Performing Fundamental Operations of Integers into real life situations.

SITUATIONAL ANALYSIS/SEA-PLM LIKE TEST USING THE CONCEPTS OF PERFORMING FUNDAMENTAL OPERATIONS OF INTEGERS: LEVEL 11

Name of Student: _____

PRE TEST SCORE _____

Grade and Section: _____

POST TEST SCORE _____

Directions: Read the problem carefully and solve as directed

SEA-PLM LIKE Mathematics Assessment Involving Integers: Cold Storage Efficiency Problem

Example 1: A cold storage facility must keep food at -18°C or lower to remain safe. The temperature inside the storage changes during the day:

- Start: -20°C
- Morning increase: $+3^{\circ}\text{C}$
- Midday decrease: -5°C
- Afternoon increase: $+2^{\circ}\text{C}$
- Evening decrease: -4°C

Use the information to answer the questions:

1. What was the temperature after the morning increase?
2. What was the temperature after the midday decrease?
3. What was the final temperature at the end of the day?
4. At what point during the day was the temperature warmest?
5. Did the food remain safe all day? Explain.

Solution: Step-by-Step Temperature Tracking

Stage	Calculation	Temperature
Start/Given		-20°C
Morning increase	$-20 + 3$	-17°C
Midday decrease	$-17 - 5$	-22°C
Afternoon increase	$-22 + 2$	-20°C
Evening decrease	$-20 - 4$	-24°C

Answers:

1. -17°C
2. -22°C
3. -20°C
4. -24°C
5. No

Explanation:

The food is **NOT safe throughout the day**. To stay safe the given temperature must be -18°C or lower ($\leq -18^{\circ}\text{C}$). But after the morning increase the temperature became -17°C , which is above the safe limit. Therefore, the safety requirement was violated during that period.

Problem 1: A cold storage facility must keep food at -18°C or lower to remain safe. The temperature inside the storage changes during the day:

- Start: -20°C
- Morning increase: $+3^{\circ}\text{C}$
- Midday decrease: -5°C
- Afternoon increase: $+2^{\circ}\text{C}$
- Evening decrease: -4°C

Use the information to answer the questions:

1. What was the temperature after the morning increase?
2. What was the temperature after the midday decrease?
3. What was the final temperature at the end of the day?
4. At what point during the day was the temperature warmest?
5. Did the storage remain safe all day? Explain.



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NUMERACY INTERVENTION MATERIALS FOR KEY STAGES 2-4 MATHEMATICS

REAL TIME: GRADE 7 TERM: 1 CONTENT: *Numbers and Number Sense*

CONTENT STANDARD: *Demonstrate key concepts of the real number system*

Learning Competency: *Performs Fundamental Operations on Integers- M7NS-1c-d-1*

Prerequisite: *Familiarize and master basic concepts on adding, subtracting, multiplying, and dividing integers*

SITUATIONAL ANALYSIS/SEA-PLM LIKE QUESTIONS: Application on basic concepts in Performing Fundamental Operations of Integers into real life situations.

ANSWER KEY FOR SITUATIONAL ANALYSIS/SEA-PLM LIKE TEST USING THE CONCEPTS OF PERFORMING FUNDAMENTAL OPERATIONS OF

Name of Student: _____

PRE TEST SCORE _____

Grade and Section: _____

POST TEST SCORE _____

Directions: Read the problem carefully and solve as directed

SEA-PLM LIKE Mathematics Assessment Involving Integers: Cold Storage Efficiency Problem

Problem 1: A cold storage facility must keep food at -4°C or higher to remain safe. The temperature inside the storage changes during the day:

- Start: -12°C
- Morning increase: $+9^{\circ}\text{C}$
- Midday decrease: -3°C
- Afternoon increase: $+2^{\circ}\text{C}$
- Evening decrease: -2°C

Use the information to answer the questions:

1. What was the temperature after the morning increase
2. What was the temperature after the midday decrease?
3. What was the final temperature at the end of the day?
4. At what point during the day was the temperature warmest?
5. Did the storage remain safe all day? Explain.

Solution: Step-by-Step Temperature Tracking

Stage	Calculation	Temperature
Start/Given		-12°C
Morning increase	$-12^{\circ}\text{C} + 9^{\circ}\text{C}$	-3°C
Midday decrease	$-3^{\circ}\text{C} - 1$	-4°C
Afternoon increase	$-4^{\circ}\text{C} + 2$	-2°C
Evening decrease	$-2^{\circ}\text{C} - 2$	-4°C

Answers:

1. -3°C
2. -4°C
3. -2°C
4. -4°C
5. Yes

Explanation:

The food is **safe throughout the day**. To stay safe the given temperature must be -4°C or higher ($\geq -4^{\circ}\text{C}$). After the morning increase, midday decrease, afternoon increase, and evening decrease, the temperature became -3°C , -4°C , -2°C , and -4°C respectively. Thus, the results above passed the safe limit.

INSIGHTS: In answering SEA-PLM Like Test involving integers, I have learned that it is very essential to master the fundamental concepts on the operations of integers. Analyze the given situation and apply knowledge on adding and subtracting integers.



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**Numeracy Assessment for Exiting Grade of Key Stage 1
Grade 3 Pre-Test**

(Focusing on the Basic Concepts and Applications of
Addition, Subtraction, Multiplication and Division)

Pangalan: _____ Bilang ng Tamang Sagot: _____
Paaralan: _____ Numeracy Level: _____
Sub- Opisina: _____ Classification: _____

Panuto: Basahin at unawain ang bawat bilang. Isulat ang sagot sa linyang nasa unahan, gawan ng solusyon at bilugan ang sagot kung kinakailangan.

- _____ 1. Sa mathematical sentence or mathematical equation na $7 + 1 = 8$, ano ang tawag sa bilang na **8**?
- _____ 2. Alin ang **addends** sa mathematical sentence or mathematical equation, $7 + 1 = 8$?
- _____ 3. Ano ang **mathematical operation** na ginamit sa $7 + 1 = 8$?
- _____ 4. Ano ang **sagot** sa mathematical expression: $65 + 28$?
- _____ 5. Sa mathematical sentence or mathematical equation $84 - 23 = 61$, alin ang **minuend**?
- _____ 6. Alin naman ang **subtrahend** sa $84 - 23 = 61$?
- _____ 7. Sa mathematical sentence or mathematical equation $84 - 23 = 61$, **ano ang tawag sa sagot na 61**?
- _____ 8. Ano ang tawag sa **mathematical operation** na ginamit sa $84 - 23 = 61$?
- _____ 9. Sa mathematical expression 12×15 , ano ang tawag sa mga bilang na **12 at 15**?
- _____ 10. Ano ang **product** sa mathematical expression 12×15 ?



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**Numeracy Assessment for Exiting Grade of Key Stage 1
 Grade 3 Pre-Test**

(Focusing on the Basic Concepts and Applications of
Addition, Subtraction, Multiplication and Division)

Pangalan: _____ Bilang ng Tamang Sagot: _____
 Paaralan: _____ Numeracy Level: _____
 Sub- Opisina: _____ Classification: _____

Panuto: Basahin at unawain ang bawat bilang. Isulat ang sagot sa linyang nasa unahan, gawan ng solusyon at bilugan ang sagot kung kinakailangan.

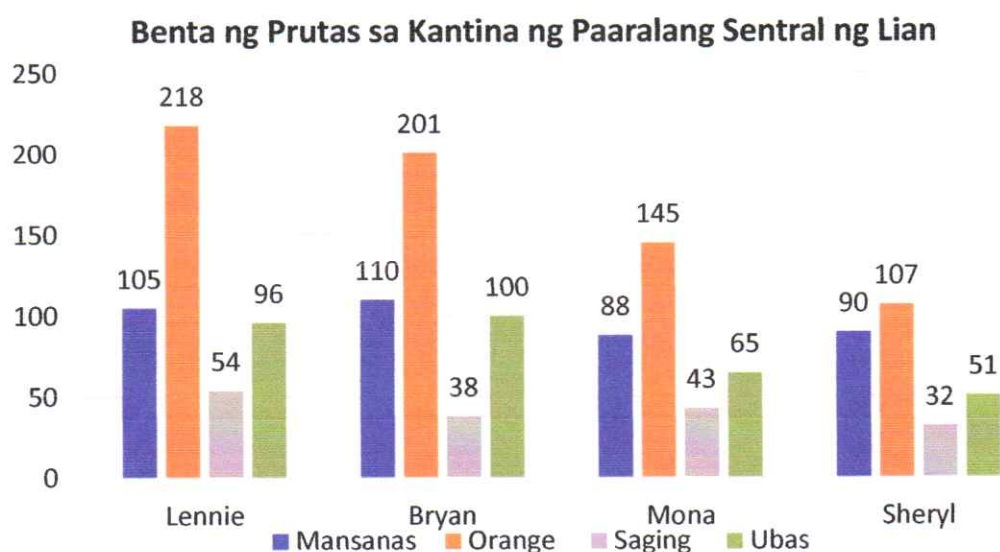
- _____ 1. Sa mathematical sentence or mathematical equation na $7 + 1 = 8$, ano ang tawag sa bilang na **8**?
- _____ 2. Alin ang **addends** sa mathematical sentence or mathematical equation, $7 + 1 = 8$?
- _____ 3. Ano ang **mathematical operation** na ginamit sa $7 + 1 = 8$?
- _____ 4. Ano ang **sagot** sa mathematical expresion: **$65 + 28$** ?
- _____ 5. Sa mathematical sentence or mathematical equation $84 - 23 = 61$, alin ang **minuend**?
- _____ 6. Alin naman ang **subtrahend** sa $84 - 23 = 61$?
- _____ 7. Sa mathematical sentence or mathematical equation $84 - 23 = 61$, **ano ang tawag sa sagot na 61**?
- _____ 8. Ano ang tawag sa **mathematical operation** na ginamit sa $84 - 23 = 61$?
- _____ 9. Sa mathematical expression 12×15 , ano ang tawag sa mga bilang na **12 at 15**?
- _____ 10. Ano ang **product** sa mathematical expression 12×15 ?



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- ___ 11. Ano ang **mathematical operation** na ginamit sa 12×15 ?
- ___ 12. Sa **mathematical expression** $64 \div 2$, ano ang tawag sa bilang na **64**?
- ___ 13. Alin ang **divisor** sa mathematical sentence na $64 \div 2 = 32$?
- ___ 14. Ano ang **tawag sa 32** mula sa mathematical sentence na $64 \div 2 = 32$?
- ___ 15. Ano ang **mathematical operation** na ginamit sa $64 \div 2 = 32$?

Gamitin ang Bar Chart para sa mga bilang 16-18



- ___ 16. Anong prutas ang **pinakamabenta** sa kantina ng Paaralang Sentral ng Lian?
- ___ 17. Sino ang may **pinakamababang benta** ng orange?
- ___ 18. **Ilista** ang mga bentang saging nina Lennie, Bryan, Mona, at Sheryl. **Bilugan** ang kabuuang bilang ng kanilang bentang saging.



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____19. Masayang pinagdiriwang sa Lungsod ng Calaca ang “*Calacatsara Festival*”. Masarap ang atsara kaya naman paborito ito ni Ana na pangregalo sa kanyang mga panauhin. Bumili siya ng ***tatlumpu at dalawang (32)*** bote ng atsara sa Pamilihan ng Lungsod ng Calaca noong Sabado. Ngunit naisip niya na kulang pa ito para sa mga darating na panauhin kaya bumili pa siya ng ***labindalawa (12)*** pang bote ng atsara. ***Ilan lahat ang bote ng atsara*** na nabili ni Ana?

____20. Tanyag ang tinapay biscocho sa bayan ng Tuy kaya naman maraming natanggap si Sev mula sa kanyang mga panauhin. Si Peter, na una niyang panauhin ay may dalang ***15 balot na biscocho***. Si Jenny, ang pandalawang panauhin ay nagbigay din ng ***11 balot na biscocho***. Ang pang tatlong panauhin na nakababata niyang kapatid ay dinalahan siya ng ***2 kahon ng paborito niyang cassava cake***. ***Ilan lahat ang balot na biscocho*** ang natanggap ni Sev?

Sitwasyon para sa mga bilang na 21-22:

Kilala ang bayan ng Taal sa “*EL PaSubaT Festival*”, (***E***mpanada, ***L***onganisa, ***P***anutsa, ***S***uman, ***B***arong/***B***alisong at ***T***apa). Si Lorie ay pumunta ng palengke ng Taal upang magbayad ng ***Php 400*** para sa patahing barong. Bumili siya ng ***kalahating kilo ng tapa*** sa halagang ***Php 150*** at ***kalahating kilo ng longanisa*** sa halagang ***Php 200*** para sa kanilang tanghalian. ***Php 50 suman, Php 25 kapeng barako, at Php 20 panutsa*** para sa kanilang meryenda.

____21. ***Magkano*** ang kabuuang halaga ang babayaran ni Lorie sa pinatahi niyang ***barong, biniling tapa, at longanisa?***

____22. Kung ***Php 500*** ang binayad ni Lorie para sa meryenda ng kanyang pamilya, ***magkano ang ibabalik na sukli*** sa kanya ng tindera?

____23. Sinasabing “*Scuba Diving Capital of Batangas*” ang Anilao, Mabini. Maraming dumarayo sa lugar upang makita ang napakagandang tanawin sa ilalim ng karagatan ng Anilao Beach Resort. Noong araw ng Sabado ay may bisitang ***26 lalaki at 35 na babae***. Kinabukasan ng Linggo ay mayroong kabuuang bilang na ***58 lalaki at babae***. Ano ang ***difference*** ng bilang ng mga bisita nang araw ng Sabado at Linggo?



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- ___ 24. May **1 dosenang kalahok** mula sa Sub-Opisina ng San Juan at **2 dosenang** kalahok mula sa Sub-Opisina ng Rosario ang dadayo para patimpalak ng STEMazing para sa kategoriya ng Science at Matematika. Kung ang **15 kalahok** ay para sa Science, **ilan ang kalahok** para sa **Matematika**?
- ___ 25. Nagbukas ng alkansiya si Jose upang mabili niya ang gamot sa botika ng bayan ng Sta. Teresita na kailangan inumin ng kanyang ina mula sa naimpok niyang pera. Ang laman ng alkansiya ay nagkakahalaga ng **Php 95**, ngunit ito ay **hindi sapat** para mabili niya lahat ang order ng doktor sa kanyang ina. May **naipon** din ang kanyang kapatid na si Mona mula sa kanyang baon na halagang **Php 80**. Ang kabuuan na halaga ng kumpletong gamot ay **Php 200**. **Magkano pa ang kailangan** ng magkapatid para mabili ang kumpletong gamot para sa kanilang ina?
- ___ 26. Tuwing may kalamidad, ang pamilya De Vega ay nagkakaloob ng **tig Php 70** para sa mga nasalanta. **Magkano lahat** ang kabuuan ng bigay ng mag-anak kung sina G. at Gng Dela Vega ay may **6 na anak**?
- ___ 27. Ang “Little Boracay” na matatagpuan sa *Calatagan, Batangas* ay isang isla na nasa gitna ng dagat. Kailangang sumakay sa balsa or “floating cottage”, para marating ang isla sa loob ng 10 minuto. Kung ano ang makikita sa totoong Boracay Aklan ay makikita rin sa *Little Boracay*. Dahil dito ay maraming naghahangad na makita at marating ang napakagandang lugar. Kailangan lang magbayad ng **Php 30 kada tao**. para sa eco-fee. Kung ang sakay sa floating cottage ay **12 na tao**, **magkano ang kabayaran para sa eco-fee**?
- ___ 28. Tanyag ang *Taysan* sa *pagawaan ng semento*. Nagbigay ang kumpanya ng **98 supot ng semento** kay Teacher Mhel. Ito ay donasyon para sa Brigada Eskwela ng paaralan. **Paghahatian ang 98 supot semento ng 6 na guro** mula baitang isa hanggang anim. **Ang labis na supot ng semento** ay para sa pagpapagawa naman ng silid-aralan ni Teacher Mhel. **Ilang supot ng semento ang matitira** para sa pagpapagawa ng silid-aralan ni Teacher Mhel matapos makuha ng anim na guro ang kanilang kabahagi?



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Sitwasyon para sa mga bilang 29-30:

Isang araw ng Sabado ay pumunta sa palengke ng San Pascual sina Gina at Lorena upang bumili ng lapis at papel. Doon ay nakita nila sina Marissa at Isabel na may parehong layunin. Ang pwede na lang mabili nilang apat ay **84 kahon ng lapis at 32 kahon ng papel**. Nagkasundo sila sa hatian ng mga aytems na kanilang bibilihin. **Kalahati ng bilang ng kahon ng lapis at 20 ng kahon ng papel** ay bibilhin ni Gina. Ang **matitirang bilang ng lapis at papel** ay paghahati-hatian ng 3 magkakaibigan.

- ___ 29. Ilang **kahon ng lapis at papel** ang mabibili ni Gina?
- ___ 30. Ilan ang **bilang ng kahon ng lapis at kahon ng papel** ang mabibili ng bawat isang magkakaibigan matapos mabayaran ni Gina ang para sa kanyang kabahagi ayon sa kanilang kasunduan?



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SUSI ng Pagwawasto: Grade 3 Pre-Test
Numeracy Assessment para sa Exiting Grade Key Stage 1

1. sum	11. multiplication	21. Php750.00
2. 7 at 1	12. dividend	22. Php405 or P405.00
3. addition	13. 2	23. 3
4. 93	14. quotient	24. 21 kalahok para sa Matematika
5. 84	15. division	25. Php 25 or P25.00
6. 23	16. orange	26. Php 560 or P560.00
7. difference	17. Sheryl	27. Php 360 or P360.00
8. subtraction	18. Lennie: (54) Bryan : (38) Mona : (43) Sheryl : (32)	28. 2 supot ng semento
9. multiplier and multiplicand or factors	19. 44 bote ng atsara	29. 42 kahon ng lapis 20 kahon ng papel
10. 180	20. 26 balot biscocho	30. 14 kahon ng lapis at 4 kahon ng papel

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Numeracy Assessment for Exiting Grade of Key Stage 2
Grade 6 Pre-Test

(Focusing on the Basic Concepts and Applications of
Addition, Subtraction, Multiplication and Division)

Name _____ No. of Correct Response: _____
School: _____ Numeracy Level: _____
Sub- Office: _____ Classification: _____

Directions: Read and understand carefully what is being asked in every number. Write the solution and encircle the correct answer if needed.

- ____ 1. In mathematical sentence or mathematical equation $87 + 41 = 128$, how do you call number **128**?
- ____ 2. Which are the **addends** in $87 + 41 = 128$?
- ____ 3. What **mathematical operation** is used in $87 + 41 = 128$?
- ____ 4. What is the **value of n** in mathematical sentence or mathematical equation $165 + 328 = n$?
- ____ 5. In mathematical expression $184 - 25$, what is the **minuend**?
- ____ 6. What is the **subtrahend** in mathematical expression $184 - 25$?
- ____ 7. In mathematical sentence or mathematical equation $184 - 25 = 159$, **what is 159**?
- ____ 8. What **mathematical operation** is used in $384 - 110 = 274$?
- ____ 9. What is the **product** in mathematical expression 123×15 ?
- ____ 10. How do you call **123** and **15** in mathematical expression: 123×15 ?
- ____ 11. In mathematical expression $164 \div 2$, **what is 164 stands for**?
- ____ 12. In mathematical equation $164 \div 2 = 82$, **which is the divisor**?



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___ 13. How do you call **82** in mathematical equation $164 \div 2 = 82$?

___ 14. What is the **value of n** in mathematical sentence or mathematical equation $96 \div n = 8$?

___ 15. What is the **quotient** in mathematical expression $125 \div 5$?

___ 16. Calacazens were happy and proud celebrating “*Calacatchara Festival*” during City Town Fiesta. Indeed, atchara is one of the delicacies in the City. Rina always buy atchara as her token and gift to her friends and relatives. She bought **one hundred thirty-two (132)** bottles of atchara in the Public Market last Saturday. She bought another **eighty-three (83) bottles of atchara** on Sunday morning. What is the **total number of bottles** bought by Rina?

___ 17. “Biscocho” is the famous bread in the municipality of Tuy. Romy gave **44 bundles** of **biscocho bread** to Danny. Mirasol also gave **18 bundles** of **biscocho** to Danny while his brother gave him **2 boxes** of his favorite **cassava cake**. **How many bundles of biscocho bread** did Danny receive?

___ 18. “Fantasy World Batangas” or the “Disneyland of the Philippines” is situated along Diokno Highway in Lemery, Batangas. The trisome friends Annie, Boyet, and Coby visited their common friend Donna to visit the Fantasy World Batangas. As part of the policy, one visitor shall pay **Php 100** as entrance fee. If Donna has **2 invited guests**, Annie’s invited guest is **twice the number of Donna’s invited guests**. Boyet has **no invited guest**, Coby has **only 1 invited guest**, how much is **total entrance fee** to be paid?

___ 19. Anilao, Mabini is well known as the “*Scuba Diving Capital of Batangas*”. There were several tourists who admired and attracted on the place under sea level. One Saturday morning, **126 male** and **84 female** arrived on the place. On the following day, a total of **107 male** and **female** visited on the same place. What is the **difference** between the number of guests arrived from Saturday to Sunday?



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___20. Benjie opened his piggy bank to buy medicine for his father. He gathered **Php 815.50** but it is not enough to buy all prescribed medicines by his father's doctor. His brother Joven shared his **Php 254.50** savings. The total amount of all prescribed medicines is **Php 2000**. How much money is needed by Benjie and Joven to buy all prescribed medicines?

___21. If someone needs atis for business, the best commercial place is Lobo, Batangas. On Sunday, Joneth bought one (1) kaing of atis which includes **5 kilos** for **Php 500**. If Joneth's price is **Php 130 per kilo**, how much is his **net** for every kilo of atis?

Situations for the numbers 22-24:

The municipality of Taal is well known in the "*EL PaSubaT Festival*", (Empanada, Longanisa, Panutsa, Suman, Barong/Balisong at Tapa). Cora went to market to pay **Php 400** for the labor of her Barong. After giving her payment, Cora bought **one-half kilo of tapa** for **Php 200** and **one-half kilo of longanisa** for **Php 250** for their lunch. For her family's merienda, she also bought **suman** for **Php 52.25**, **coffee** for **Php 23.50**, and **peanut brittle** for **Php 18.25**. To her surprise, the vendor gave **10% discount** for the total payment for family's merienda alone.

___22. How much is the **total amount** to paid by Cora as her payment for the labor in her **barong**, **cost of tapa**, and **longanisa**?

___23. If Cora wants to buy another **one kilo** of **tapa** and **one kilo** of **longanisa**, how much is her **change** if she gave **Php 1000** peso bill?

___24. **List** the items for merienda together with its corresponding price and encircle the **total discount** for merienda.

___25. Mr. and Mrs. Dela Vega have **6 children**. Each child shared **Php500** as support for the calamity assistance. The total amount given by their children is **equal** to the amount shared by Mr. and Mrs. De la Vega. How much is the **total amount** donated by the whole family?



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Numeracy Assessment for Exiting Grade of Key Stage 4
Grade 12 Pre-Test

(Focusing on the Basic Concepts and Applications of
Addition, Subtraction, Multiplication and Division)

Name _____ No. of Correct Response: _____
School: _____ Numeracy Level: _____
Sub- Office: _____ Classification: _____

Directions: Read and understand carefully what is being asked in every number. Write the solution and encircle the correct answer if needed.

- ____ 1. In mathematical sentence or mathematical equation
 $1,102 + 2,453 = 3,355$, how do you call number **3,355**?
- ____ 2. Which are the **addends** in mathematical equation
 $1,102 + 2,453 = 3,355$?
- ____ 3. What **mathematical operation** is used in equation
 $1,102 + 2,453 = 3,355$?
- ____ 4. What is the **value of n** in mathematical sentence or mathematical equation
 $1,243 + 2,168 = n$?
- ____ 5. In mathematical expression $715 - 45$, what is the **minuend**?
- ____ 6. What is the **subtrahend** in mathematical expression $541 - 125$?
- ____ 7. In mathematical sentence or mathematical equation
 $541 - 125 = 416$, **what is 416**?
- ____ 8. What **mathematical operation** is used in $541 - 125 = 416$?
- ____ 9. What is the **product** in mathematical expression 134×25 ?
- ____ 10. How do you call **134** and **25** in mathematical expression 134×25 ?
- ____ 11. What **mathematical operation** is used mathematical expression
 134×25 ?
- ____ 12. In mathematical expression $852 \div 12$, **what do you call by 852**?



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- ___ 13. In mathematical equation $852 \div 12 = 71$, **which is the divisor?**
- ___ 14. What **mathematical operation** is used in $852 \div 12 = 71$?
- ___ 15. What is the **value** of n in mathematical sentence or mathematical equation $920 \div n = 184$?
- ___ 16. **“Fantasy World Batangas”** or the **“Disneyland of the Philippines”** is situated along Diokno Highway in Lemery, Batangas. The trisome friends Anton, Ben and Carol visited their common friend Derek hub’s, and agreed to go to Fantasy World Batangas. As part of the policy of the place, one visitor shall pay **Php 100** as entrance fee. If Derek has **5 invited guests**, Anton invited guest is **twice** the number of Derek’s invited guests. Ben has **3 less** than the number of invited guests of Derek. Carol has **2 more** invited guest of Ben. How much is **total entrance fee** of the foursome friends together with their respective invited guests?
- ___ 17. *Anilao, Mabini* is well known as the **“Scuba Diving Capital of Batangas”**. There were several tourists who admired and attracted on the place under sea level. One Saturday morning **1,012 male** and **134 female** arrived on the place. On the following day, a total of **1,130 male** and **female** visited on the same place. What is the **difference** between the number of guests arrived from Saturday to Sunday?
- ___ 18. According to the news aired by TV Patrol, the 25 kilos of onion is worth **Php 1,575.00**. After two days of airing, 1 kilo of onion costs **Php 60**. How much is **reduced** in every kilo of onion?
- ___ 19. Ronel opened his piggy bank to buy medicine for his father. He gathered **Php 2500** but it is not enough to buy all medicines as prescribed by his father’s doctor. His sister Lanell shared her **Php 2180** savings. The total amount of all prescribed medicines is **Php 5000**. How much money **is needed** by Ronel and Lanell to buy all prescribed medicines?
- ___ 20. If someone needs atis for business, the best commercial place is Lobo, Batangas. On Sunday, Milette bought one (1) kaing of atis which includes **8 kilos** for **Php 760**. If Milette’s price is **Php 130.50 per kilo**, how much is his **net** per kilo?
- ___ 21. Mr. and Mrs. Garcia have **5 children**. Each child shared **Php 500** for the voluntary contribution. **Thrice the total amount** given by their children is the amount shared by Mr. and Mrs. Garcia. How much is the total amount offered by the whole family?



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Situations for the numbers 22-24:

The municipality of Taal is well known in the “*EL PaSubaT Festival*”, (Empanada, Longanisa, Panutsa, Suman, Barong/Balisong at Tapa). Cheryll went to market to pay **Php 1,050** for the labor of her Barong. After giving her payment, Cheryll bought **one-half kilo of tapa** for **Php 250** and **one-half kilo of longanisa** for **Php 280** for their lunch. For her family’s merienda, she also bought **suman** for **Php 345.50**, **coffee** for **Php 230.25**, and **peanut brittle** for **Php 280.25**. To her surprise, the vendor gave **10% discount** for the total payment for family’s merienda alone.

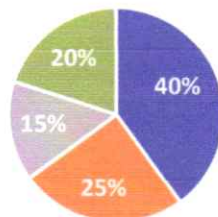
___22. How much is the **total amount** to paid by Cheryll as her payment for the labor in her **barong, cost of tapa, and longanisa**?

___23. How much is the **total amount** to be paid by Cheryll to their merienda alone?

___24. **List** the items for merienda together with its corresponding original price and **encircle** the total discount for merienda alone.

Use Pie Chart for items 25-26

Monthly Sales of Mathematics Books in National Bookstore -SM Lemery



■ January ■ February ■ March ■ April

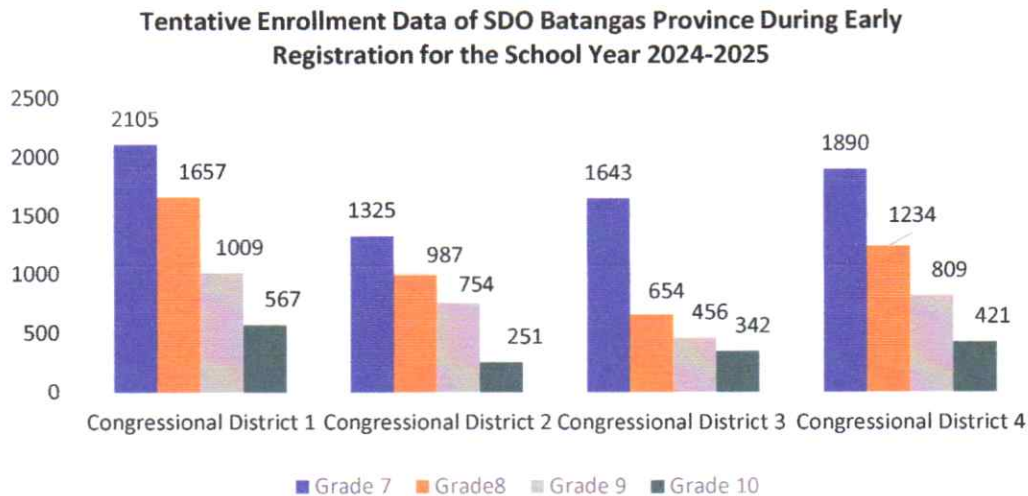
___25. What month has the **greatest percentage** sales of Mathematics books in National Bookstore- SM Lemery Batangas?

___26. If the number of sold-out Mathematics book in **January is 2,280 pieces**, then how many were sold in the **month of April**?



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Use Bar Graph below for questions 27-32



___27. What grade has the **highest tentative enrollment data** of SDO Batangas Province during Early Registration for the SY 2024-2025?

___28. What **Congressional District has a lowest tentative enrollment data** of SDO Batangas Province during Early Registration for the SY 2024-2025 in Grade 10?

___29. What is the **total tentative enrollment data** of SDO Batangas Province during Early Registration for the SY 2024-2025 in Congressional Districts 1-4 for Grade 7?

___30. What is the **difference between highest and lowest tentative enrollment data** of SDO Batangas Province during Early Registration for the SY 2024-2025 in Grade 8?

___31. What is the **average tentative enrollment data** of SDO Batangas Province during Early Registration for the SY 2024-2025 in Congressional Districts 1-4 for Grade 9?

___32. Identify which among the Congressional Districts 1-4 has the **highest and lowest tentative enrollment data** of SDO Batangas Province during Early Registration for the SY 2024-2025 in Grade 10 and **encircle** the difference.



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Situations for item numbers 33-34

The foursome friends were met in Shopping Center at San Juan Batangas. Avy, Bonnie, Carlo, and Delia need box of pencil and pad of paper to be given for the learners with outstanding character. But unfortunately, stocked is limited and they need to agree on the arrangement of sharing. Since there were only **144 boxes of pencil** and **36 boxes of pad paper**, Avy requested $\frac{1}{2}$ of the number of box of pencil and $\frac{1}{4}$ of the number of box of pad paper. The remaining stocked is to be equally divided by the three (3) friends.

___33. How many **boxes of pencil** and **boxes of pad paper** are to be purchased by Avy?

___34. **List** the number of boxes of pencil and pad paper to be purchased by **each of the three friends?**

___35. In Mathematics class, teacher Melay directed to survey the color preference of his **1044 students**. **One-third** ($\frac{1}{3}$) of the student-respondents revealed that pink is the best. **How many students** were in favored with color pink?

___36. For teacher Peter, inflation makes lives difficult for people. He concluded that saving and spending money wisely could be of help to address the issue. He encouraged his students to save from Monday to Sunday. After **a week** one of the students reported that he has **Php 4,130**, **how much is his savings for each day?**

___37. *San Jose* is well known as "*Egg Basket of the Philippines*". On the birthday celebration of Daniela she needs to have appropriate ingredients for a perfect taste of leche plan. If **one (1) dozen** of egg produced **25 pcs of leche flan**, then how many dozen of egg is needed if she wants to prepare **1,525 pcs of leche flan?**

___38. Miguel will be going to El Cielito Hotel, Sta.Rosa Laguna with Lea to attend Training Workshop and Audit Simulation for Internal Quality Auditors. On their way to venue their driver filled **104 liters** of premium unleaded gas for a cost of **Php 63.25** per liter. How much is the total amount to be paid?

___39. Mayeth and Cypre are Grade 6 students working together in a school library. The subjects are kept in order using Dewey Decimal System. As they arranging the books, they noticed that a file of **2,105 books is 6,315 inch high**. What is the **thickness of each** book in inches?



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___ 40. Nina wants to have customized bed sheet for the 55 queen size bed. She bought **1,213m** of cloth at the Flora's Fabric Store in Batangas City. Customized bed sheet is done and used **1,185m 30 cm**. How much **meter** cloth is **left**?

___ 41. Based on the result of the total number of Early Registration for SHS of SDO Batangas Province for the last three years, it was found out that the total enrollment is increasing every school year. If the current total enrollment for Senior High School for the SY 2024-2025 is **13,451**, and it is expected to **increase** by **501** students **each year**, determine the total enrollment for SHS of SDO Batangas Province in **each SY** for the **next 2 years**?

___ 42. In a mathematics class for Grade 12, Sir Jojo asked to find the following: **three (3) consecutive integers** whose **sum is 1,297**. What are the numbers?

___ 43. Sir Jojo also asked to find **three (3) consecutive even integers** whose **sum is 2,364**. What are the numbers?

___ 44. Ruby's mother is **older** than her by **14 years**. If the **sum** of their ages is **56**, how old is her **mother**?

___ 45. To release the stress from work for the whole week, Sir Jimmy visited his nephew to go along at their family's farm. When they were passing around, they found out that majority of the animals are cows and chicken. If the total number of cows and chicken is 20, and the sum of their legs is 64 how many are **cows** and **chicken**?

Situations for the numbers 46-50:

In Statistics class, Sir Castro congratulated ten (10) students for being top in the recent quarterly examination. Their grades ranges from 88 to 99. The following grades were listed below:

85 91 87 96 90 98 93 91 92 94

___ 46. Arrange the grades in **ascending order**.

___ 47. Arrange the grades in **descending order**.

___ 48. What is the **mean** of top 10 students?

___ 49. What is the **median** of the top 10 students?

___ 50. What is the **mode** of the top 10 students?



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Key to Correction: Grade 12 Pre Test
Numeracy Assessment for Exiting Grade of Key Stage 4

NOTE: Give half points IF the answer is correct BUT no corresponding unit

1. sum	11. multiplication	21. Php10,000 or P10,000.00	31. 757	41. SY2025-2026 =13,952 SY2026-2027 =14,453
2. 1,102 and 2,453	12. dividend	22. Php 1,580 or P1,580.00	32. 567 -251 316	42. 982, 983 and 984
3. addition	13. 12	23. Php770.40	33. 72 boxes of pencil & 9 boxes of pad paper	43. 786, 788 and 790
4. 3,411	14. division	24. suman= Php345.50 coffee=Php230.25 peanut brittle= Php280.25 Php 85.60	34. 24 boxes pencil 9 boxes of pad paper	44. 35 yrs. old
5. 715	15. 5	25. January	35. 348 students	45. 12 cows and 8 chicken
6. 125	16. Php2,500.00 or P2,500.00	26. 1,140 pcs	36. Php 590 or P590.00/day	46. 85, 87, 90, 91, 91, 92, 93, 94, 96, 98
7. difference	17. 16	27. Grade 7	37. 61 dozen	47. 98, 96, 94, 93, 92, 91, 91, 90, 87,85
8. subtraction	18. Php 3 or P3.00	28. Congressional District 2	38. Php632.50 or P632.50	48.91.70
9. 3,350	19. Php320 or P 320.00	29. 6,963	39. 3 inches	49. 91.50
10. factors	20. Php35.50 or P35.50	30. 1,003	40. 27m and .70m or 27m and 70 cm	50. 91



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**Numeracy Assessment for Exiting Grade of Key Stage 1
Grade 3 Mid-Year Test**

(Focusing on the Basic Concepts and Applications of
Addition, Subtraction, Multiplication and Division)

Pangalan: _____ Bilang ng Tamang Sagot: _____
Paaralan: _____ Numeracy Level: _____
Sub-Opisina: _____ Classification: _____

Panuto: Basahin at unawain ang bawat bilang. Isulat ang sagot sa linyang nasa unahan, gawan ng solusyon at bilugan ang sagot kung kinakailangan.

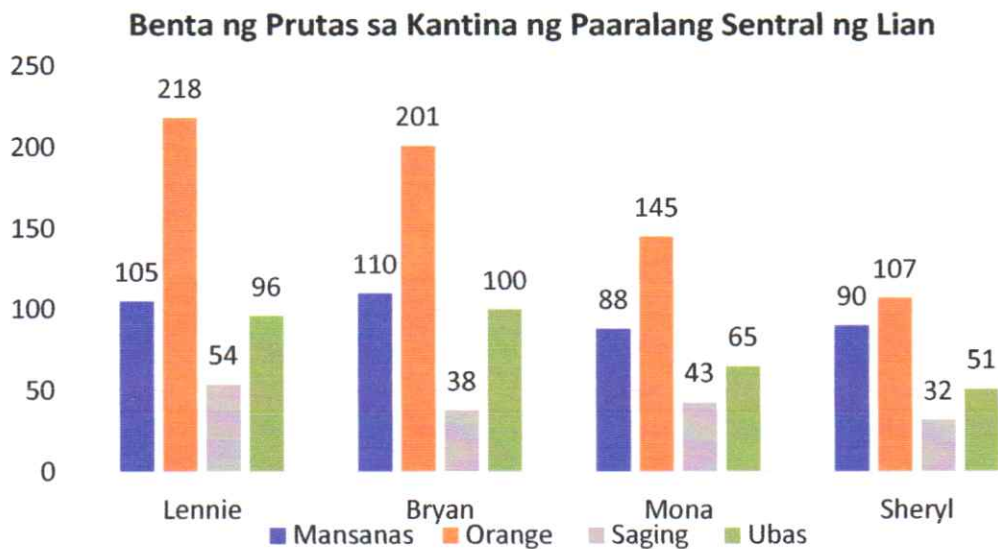
- ____ 1. Sa mathematical sentence or mathematical equation na $4 + 5 = 9$, ano ang tawag sa bilang na **9**?
- ____ 2. Alin ang **addends** sa mathematical sentence or mathematical equation, $4 + 5 = 9$
- ____ 3. Ano ang **mathematical operation** na ginamit sa $4 + 5 = 9$?
- ____ 4. Ano ang **sagot** sa mathematical expression: **$15 + 27$** ?
- ____ 5. Sa mathematical sentence or mathematical equation $81 - 34 = 47$, alin ang **minuend**?
- ____ 6. Alin naman ang **subtrahend** sa $81 - 34 = 47$?
- ____ 7. Sa mathematical sentence or mathematical equation $81 - 34 = 47$, **ano ang tawag sa sagot na 47**?
- ____ 8. Ano ang tawag sa **mathematical operation** na ginamit sa $84 - 34 = 47$?
- ____ 9. Sa mathematical expression 11×12 , ano ang tawag sa mga bilang na **11 at 12**?
- ____ 10. Ano ang **product** sa mathematical expression 11×12 ?



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- ___ 11. Ano ang **mathematical operation** na ginamit sa 11×12 ?
- ___ 12. Sa mathematical expression $100 \div 4$, ano ang tawag sa bilang na **100**?
- ___ 13. Alin ang **divisor** sa mathematical sentence na $100 \div 4 = 25$?
- ___ 14. Ano ang tawag sa **25** mula sa mathematical sentence na $100 \div 4 = 25$?
- ___ 15. Ano ang **mathematical operation** na ginamit sa $100 \div 4 = 25$?

Gamitin ang Bar Chart para sa mga bilang 16-18



- ___ 16. **Ilan ang diperensiya** ng bentang orange ni Lennie kay Sheryl?
- ___ 17. Sino ang may **pinakamaraming benta** ng ubas?
- ___ 18. **Ilista** ang mga bentang saging nina Bryan, Mona, at Sheryl.
Bilugan ang kabuuang bilang ng kanilang bentang saging.



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____19. Masayang pinagdiriwang sa Lungsod ng Calaca ang “*Calacatsara Festival*”. Masarap ang atsara kaya naman paborito ito ni Ana na pangregalo sa kanyang mga panauhin. Bumili siya ng ***dalawampu at apat (24)*** bote ng atsara sa Pamilihan ng Lungsod ng Calaca noong Sabado. Ngunit naisip niya na kulang pa ito para sa mga darating na panauhin kaya bumili pa siya ng ***labindalawa (12)*** pang bote ng atsara. ***Ilan lahat ang bote ng atsara*** na nabili ni Ana?

____20. Tanyag ang tinapay biscocho sa bayan ng Tuy kaya naman maraming natanggap si Sev mula sa kanyang mga panauhin. Si Peter, na una niyang panauhin ay may dalang ***21 balot na biscocho***. Si Jenny, ang pandalawang panauhin ay nagbigay din ng ***14 balot na biscocho***. Ang pang tatlong panauhin na nakababata niyang kapatid ay dinalahan siya ng ***5 kahon ng paborito niyang cassava cake***. ***Ilan lahat ang balot na biscocho*** ang natanggap ni Sev?

Sitwasyon para sa mga bilang na 21-22

Kilala ang bayan ng Taal sa “*EL PaSubaT Festival*”, (***Empanada, Longanisa, Panutsa, Suman, Barong/Balisong at Tapa***). Si Lorie ay pumunta ng palengke ng Taal upang magbayad ng ***Php 600*** para sa patahing barong. Bumili siya ng ***kalahating kilo ng tapa*** sa halagang ***Php 120*** at ***kalahating kilo ng longanisa*** sa halagang ***Php 110*** para sa kanilang tanghalian. ***Php 75 suman, Php 30 kapeng barako, at Php 40 panutsa*** para sa kanilang meryenda.

____21. Magkano ang kabuuang halaga ang babayaran ni Lorie sa pinatahi niyang ***barong, biniling tapa, at longanisa?***

____22. Kung ***Php 200*** ang binayad ni Lorie para sa meryenda ng kanyang pamilya, magkano ang ibabalik na sukli sa kanya ng tindera?

____23. Sinasabing “*Scuba Diving Capital of Batangas*” ang Anilao, Mabini. Maraming dumarayo sa lugar upang makita ang napakagandang tanawin sa ilalim ng karagatan. Noong araw ng Sabado ay may dumating na bisita sa Anilao Beach Resort na ***41 lalaki at 38 na babae***. Kinabukasan ng Linggo ay mayroong kabuuang bilang lamang na ***29 na lalaki at babae***, ano ang ***difference*** ng bilang ng mga bisita nang araw ng Sabado at Linggo?



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- ___ 24. May **kalahating dosenang** kalahok mula sa Sub-Opisina ng San Juan at **2 dosenang** kalahok mula sa Sub-Opisina ng Rosario ang dadayo para patimpalak ng STEMAzing para sa kategoriya ng Science at Matematika. Kung ang **20 kalahok** ay para sa Science, **ilan ang kalahok** para sa **Matematika**?
- ___ 25. Nagbukas ng alkansiya si Jose upang mabili niya ang gamot sa botika ng bayan ng Sta. Teresita na kailangan inumin ng kanyang ina mula sa naimpok niyang pera. Ang laman ng alkansiya ay nagkakahalaga ng **Php 100**, ngunit ito ay **hindi sapat** para mabili niya lahat ang order ng doktor sa kanyang ina. May **naipon** din ang kanyang kapatid na si Mona mula sa kanyang baon na halagang **Php 75**. Ang kabuuan na halaga ng kumpletong gamot ay **Php 350**. **Magkano pa ang kailangan** ng magkapatid para mabili ang kumpletong gamot para sa kanilang ina?
- ___ 26. Tuwing may kalamidad, ang pamilya Cruz ay nagkakaloob ng **tig Php 120** para sa mga nasalanta. Magkano lahat ang kabuuan ng bigay ng mag-anak kung sina G. at Gng Dela Vega ay may **5 na anak**?
- ___ 27. Ang “*Little Boracay*” na matatagpuan sa *Calatagan, Batangas* ay isang isla na nasa gitna ng dagat. Kailangang sumakay sa balsa or “floating cottage”, para marating ang isla sa loob ng 10 minuto. Kung ano ang makikita sa totoong Boracay Aklan ay makikita rin sa *Little Boracay*. Dahil dito ay maraming naghahangad na makita at marating ang napakagandang lugar. Kailangan lang magbayad ng **Php 50 kada tao**. para sa eco-fee. Kung ang sakay sa floating cottage ay **8 na tao**, **magkano ang kabayaran para sa eco-fee**?
- ___ 28. Tanyag ang *Taysan* sa *pagawaan ng semento*. Nagbigay ang kumpanya ng **83 supot ng semento** kay Teacher Mhel. Ito ay donasyon para sa Brigada Eskwela ng paaralan. **Paghahatian ang 81 supot semento ng 4 na guro** mula baitang isa hanggang anim. **Ang labis na supot ng semento** ay para sa pagpapagawa naman ng silid-aralan ni Teacher Mhel. **Ilang supot ng semento ang matitira** para sa pagpapagawa ng silid-aralan ni Teacher Mhel matapos makuha ng anim na guro ang kanilang kabahagi?



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Situasyon para sa mga bilang 29-30:

Isang araw ng Sabado ay pumunta sa palengke ng San Pascual sina Gina at Lorena upang bumili ng lapis at papel. Doon ay nakita nila sina Marissa at Isabel na may parehong layunin. Ang pwede na lang mabili nilang apat ay **78 kahon ng lapis at 25 kahon ng papel**. Nagkasundo sila sa hatian ng mga aytems na kanilang bibilihin. **Kalahati ng bilang ng kahon ng lapis at 10 ng kahon ng papel** ay bibilhin ni Gina. Ang **matitirang bilang ng lapis at papel** ay paghahati-hatian ng 3 magkakaibigan.

- ___ 29. Ilang **kahon ng lapis at papel** ang mabibili ni **Gina**?
- ___ 30. Ilang ang bilang ng **kahon ng lapis at kahon ng papel** ang mabibili ng **bawat isang magkakaibigan** matapos mabayaran ni Gina ang para sa kanyang kabahagi ayon sa kanilang kasunduan?



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SUSI ng Pagwawasto: Grade 3 Mid-Year Test
Numeracy Assessment for Exiting Grade of Key Stage 1

1. sum	11. multiplication	21. Php830 or P830.00
2. 4 at 5	12. dividend	22. Php55 or P55.00
3. addition	13. 4	23. 50
4. 42	14. quotient	24. 10 kalahok para sa Matematika
5. 81	15. division	25. Php 175 or P175.00
6. 34	16. 111	26. Php 840 or P840.00
7. difference	17. Bryan	27. Php 400 or P400.00
8. subtraction	18. Bryan (38) Mona (43) <u>Sheryl (32)</u>	28. 3 supot ng semento
	113	
9. multiplier and multiplicand or factors	19. 36 bote ng atsara	29. 39 kahon ng lapis 10 kahon ng papel
10. 132	20. 35 balot bischocho	30. 13 kahon ng lapis at 5 kahon ng papel



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Numeracy Assessment for Exiting Grade of Key Stage 2
Grade 6 Mid-Year Test

(Focusing on the Basic Concepts and Applications of
Addition, Subtraction, Multiplication and Division)

Name _____ No. of Correct Response: _____
School: _____ Numeracy Level: _____
Sub- Office: _____ Classification: _____

Directions: Read and understand carefully what is being asked in every number. Write the solution and encircle the correct answer if needed.

- _____ 1. In mathematical sentence or mathematical equation $95 + 32 = 137$, how do you call number **137**?_
- _____ 2. Which are the **addends** in $95 + 32 = 137$?
- _____ 3. What **mathematical operation** is used in $95 + 32 = 137$?
- _____ 4. What is the **value of n** in mathematical sentence or mathematical equation $245 + 169 = n$?
- _____ 5. In mathematical expression $348 - 110$, what is the **minuend**?
- _____ 6. What is the **subtrahend** in mathematical expression $348 - 110$?
- _____ 7. In mathematical sentence or mathematical equation $384 - 110 = 274$, **what is 274**?
- _____ 8. What **mathematical operation** is used in $184 - 25 = 159$?
- _____ 9. What is the **product** in mathematical expression 412×35 ?
- _____ 10. How do you call **412** and **35** in mathematical expression: 412×35 ?
- _____ 11. In mathematical expression $543 \div 3$, **what is 543 stands for**?
- _____ 12. In mathematical equation $543 \div 3 = 181$, **which is the divisor**?



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- ___ 13. How do you call **181** in mathematical equation $543 \div 3 = 181$?
- ___ 14. What is the **value of n** in mathematical sentence or mathematical equation $195 \div n = 13$?
- ___ 15. What is the **quotient** in in mathematical expression $256 \div 4$?
- ___ 16. Calacazens were happy and proud celebrating “*Calacatchara Festival*” during City Town Fiesta. Indeed, atchara is one of the delicacies in the City. Rina always buy atchara as her token and gift to her friends and relatives. She bought **two hundred forty-eight (248)** bottles of atchara in the Public Market last Saturday. She bought another **fifty-five (55) bottles of atchara** on Sunday morning. What is the **total number of bottles** bought by Rina?
- ___ 17. “Biscocho” is the famous bread in the municipality of Tuy. Romy gave **121 bundles of biscocho bread** to Danny. Mirasol also gave **84 bundles of biscocho** to Danny while his brother gave him **5 boxes** of his favorite **cassava cake**. How many **bundles of biscocho bread** did Danny receive?
- ___ 18. “**Fantasy World Batangas**” or the “**Disneyland of the Philippines**” is situated along Diokno Highway in Lemery, Batangas. The trisome friends Annie, Boyet, and Coby visited their common friend Donna to visit the Fantasy World Batangas. As part of the policy, one visitor shall pay **Php 120** as entrance fee. If Donna has **3 invited guests**, Annie’s invited guest is **twice the number of Donna’s invited guests**. Boyet has **2 invited guest**, Coby has **zero invited guest**, how much is **total entrance fee** to be paid?
- ___ 19. Anilao, Mabini is well known as the “*Scuba Diving Capital of Batangas*”. There were several tourists who admired and attracted on the place under sea level. One Saturday morning, **213 male** and **65 female** arrived on the place. On the following day, a total of **102 male** and **female** visited on the same place. What is the **difference** between the number of guests arrived from Saturday to Sunday?



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___20. Benjie opened his piggy bank to buy medicine for his father. He gathered **Php 1250.50** but it is not enough to buy all prescribed medicines by his father's doctor. His brother Joven shared his **Php 300.50** savings. The total amount of all prescribed medicines is **Php 2400**. How much money is needed by Benjie and Joven to buy all prescribed medicines?

___21. If someone needs atis for business, the best commercial place is Lobo, Batangas. On Sunday, Joneth bought one (1) kaing of atis which includes **10 kilos** for **Php 1000**. If Joneth's price is **Php 150 per kilo**, how much is his **net** for every kilo of atis?

Situations for the numbers 22-24:

The municipality of Taal is well known in the "EL PaSubaT Festival", (Empanada, Longanisa, Panutsa, Suman, Barong/Balisong at Tapa). Cora went to market to pay **Php 500** for the labor of her Barong. After giving her payment, Cora bought **one-half kilo of tapa** for **Php 180** and **one-half kilo of longanisa** for **Php 150** for their lunch. For her family's merienda, she also bought **suman** for **Php 82.25**, **coffee** for **Php 43.50**, and **peanut brittle** for **Php 28.25**. To her surprise, the vendor gave **10% discount** for the total payment for family's merienda alone.

___22. How much is the **total amount** to paid by Cora as her payment for the labor in her **barong**, **cost of tapa**, and **longanisa**?

___23. If Cora wants to buy another **one kilo** of **tapa** and **one kilo** of **longanisa**, how much is her **change** if she gave **Php 1200** peso bill?

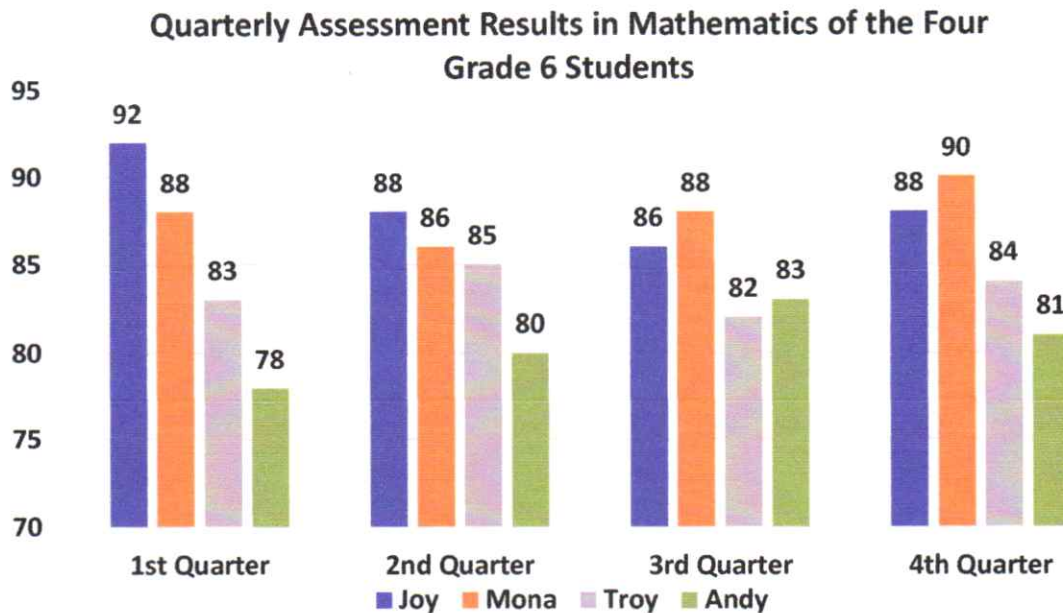
___24. **List** the items for merienda together with its corresponding price and **encircle** the total discount for merienda.

___25. Mr. and Mrs. Castro have **5 children**. Each child shared **Php300** as support for the calamity assistance. The total amount given by their children is **equal** to the amount shared by Mr. and Mrs. Castro. How much is the **total amount** donated by the whole family?



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Use Bar Graph below for questions 26-31



___26. Who obtained the **highest grade** in Quarterly Assessment in Mathematics for the first quarter?

___27. Who got the **least grade** among the four students?

___28. What is the **difference** between the **highest** and **lowest grades** in the Quarterly Assessment Results in Mathematics of the four Grade 6 students?

___29. What is the **average grade of Joy** for the 1st and 2nd quarter examination?

___30. What is the **average grade of Mona** for the 1st and 4th quarter examination?

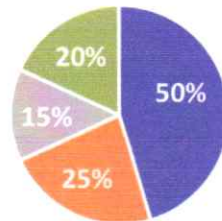
___31. Identify who garnered the **lowest grade** from 1st to 4th quarter and **encircle** his/her average.



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Use Pie Chart for items 32-33

Percentage Score on Daily Sales of Fruit Stand in Public Market Balayan



■ Apple ■ Banana ■ Orange ■ Grapes

___ 32. What fruit has the **greatest percentage** sales?

___ 33. If the number of sold-out apple is **120** pieces, then **how many pieces of banana** were sold in the Fruit Stand in Balayan Public Market?

Situations for item numbers 34-35

The foursome friends Eron, Migz, Lorna, and Rona were coincidentally met at San Pascual Public Market. They need boxes of pencil and pads of paper to be given for the learners with outstanding character. But unfortunately, stocked is limited and they need to agree on the arrangement of sharing. Since there were **96 boxes of pencil** and **40 boxes of pad paper** available, Lorna requested $\frac{1}{2}$ of the number of box of pencil and $\frac{1}{4}$ of the number of box of pad paper. The remaining number of boxes is to be equally divided by her three friends.

___ 34. How many **boxes of pencil** and **boxes of pad paper** are to be purchased by Lorna?

___ 35. **List** the remaining number of boxes of pencil and boxes of pad paper are to be purchased by **each of three friends of Lorna**.



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___36. In Mathematics class, teacher Melay directed to survey the color preference of his **21 students**. **One-third** ($\frac{1}{3}$) of the student-respondents revealed that blue is the best. How many students were in favored with color blue?

___37. *San Jose* is well known as “Egg Basket of the Philippines”. On the birthday celebration of Linda, she needs to have appropriate ingredients for a perfect taste of *leche plan*. If **one (1) dozen** of eggs produce **30 pcs** of **leche flan**, then how many dozen of eggs are needed if Linda wants to prepare **90 pcs** of **leche flan**?

___38. Miguel and Ric will be going to El Cielito Hotel, Sta.Rosa Laguna to attend Training Workshop and Audit Simulation for Internal Quality Auditors. On their way to venue, their driver filled **4 gallons** of premium unleaded gas for a cost of **Php 150.25**. How much would it cost if Ric shared additional amount to make it **8 gallons** of premium unleaded gas?

___39. Mayeth and Cypre are Grade 6 students working together in a school library. The subjects were kept in order using Dewey Decimal System. As they were arranging the books, they noticed that a file of **30 books** is **10 cm high**. What is the thickness of **each book in cm**?

___40. Nina wants to have customized bed sheet for her queen size bed. She bought **8m 75 cm** of cloth at the Flora’s Fabric Store in Batangas City. Customized bed sheet is done and used **7m 30 cm**. How much cloth is **left**?



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Key to Correction: Grades 6 Pre-Test
Numeracy Assessment for Exiting Grade of Key Stages 2

NOTE: Give one-half points IF the answer is correct BUT no corresponding unit

1. sum	11. dividend	21. Php 30 or P30.00	31. Andy 80.50
2. 87 and 41	12. 2	22. Php 850 or P850.00	32. apple
3. addition	13. quotient	23. Php100 or P100.00	33. 60
4. 493	14. 12	24. Suman= 52.25 Coffee = 23.50 Peanut brittle= <u>18.25</u> Php 9.40	34. 48 box pencil 10 box paper
5. 184	15. 25	25. Php 6000 or P6000.00	35. 16 box pencil 10 box paper
6. 25	16. 215	26. Joy	36. 7
7. difference	17. 62	27. Andy	37. 3
8. subtraction	18. Php1100 or P1,100.00	28. 14	38. Php300.50 or P300.50
9. 1,845	19. 103	29. 90	39. 3 cm
10. factors	20. Php930 or P930.00	30. 89	40. 1m 45cm





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Numeracy Assessment for Exiting Grade of Key Stage3
Grade 10 Pre-Test

(Focusing on the Basic Concepts and Applications of
Addition, Subtraction, Multiplication and Division)

Name _____ No. of Correct Response: _____
School: _____ Numeracy Level: _____
Sub- Office: _____ Classification: _____

Directions: Read and understand carefully what is being asked in every number. Write the solution and encircle the correct answer if needed.

- ____ 1. In mathematical sentence or mathematical equation $199 + 271 = 470$, how do you call number **470**?
- ____ 2. Which are the **addends** in mathematical equation $199 + 271 = 470$?
- ____ 3. What **mathematical operation** is used in $199 + 271 = 470$?
- ____ 4. What is the **value of n** in mathematical sentence or mathematical equation $345 + 143 = n$?
- ____ 5. In mathematical expression $215 - 25$, what is the **minuend**?
- ____ 6. What is the **subtrahend** in mathematical expression $215 - 25$?
- ____ 7. In mathematical sentence or mathematical equation $215 - 25 = 190$, **what is 190**?
- ____ 8. What **mathematical operation** is used in $215 - 25 = 190$?
- ____ 9. What is the **product** in mathematical expression 143×25 ?
- ____ 10. How do you call **143** and **25** in mathematical expression 143×25 ?
- ____ 11. What **mathematical operation** will be used in 143×25 ?
- ____ 12. In mathematical expression $542 \div 2$, **what do you call by 542**?
- ____ 13. In mathematical equation $542 \div 2 = 262$, **which is the divisor**?
- ____ 14. What **mathematical operation** is used in $542 \div 2 = 262$?
- ____ 15. What is the **value of n** in mathematical sentence or mathematical equation $420 \div n = 6$?



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___16. “**Fantasy World Batangas**” or the “**Disneyland of the Philippines**” is situated along Diokno Highway in Lemery, Batangas. The trisome friends Gina, Greg, and Elen visited their common friend Bobby’s hub and agreed to go to Fantasy World Batangas. As part of the policy of the place, one visitor shall pay **Php 100** as entrance fee. If Bobby has **3 invited guests**, Gina’s invited guest is **twice** the number of Bobby’s invited guests. Greg has **2 less** than the number of invited guests of Bobby. Elen has **1 more** invited guest than Greg. How much is **total entrance fee** of the foursome friends together with their invited guests?

___17. *Anilao, Mabini* is well known as the “*Scuba Diving Capital of Batangas*”. There were several tourists who admired and attracted on the place under sea level. One Saturday morning, **248 male** and **92 female** arrived on the place. On the following day, a total of **217 male** and **female** visited on the same place. What is the **difference** between the number of guests arrived from Saturday to Sunday?

___18. According to the news aired by TV Patrol, the 3 kilos of onion is worth **Php 183.00**. After two days of airing, 1 kilo of onion costs **Php 49**. How much is **reduced** in every kilo of onion?

___19. Benjie opened his piggy bank to buy medicine for his father. He gathered **Php 2500** but it is not enough to buy all medicines as prescribed by his father’s doctor. His brother Joven shared his **Php 1180** savings. The total amount of all prescribed medicines is **Php 5000**. How much money **is needed** by Benjie and Joven to buy all prescribed medicines?

___20. If someone needs atis for business, the best commercial place is Lobo, Batangas. On Sunday, Joneth bought one (1) kaing of atis which includes **5 kilos** for **Php 500**. If Joneth’s price is **Php 150.50 per kilo**, how much is his net for every kilo of atis?

___21. Mr. and Mrs. Alonzo have **4 children** and the amount given by each child is **Php 500**. **Twice the total amount** given by their children is the amount shared by Mr. and Mrs. Alonzo. How much is the total amount offered by the whole family?



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Situations for the numbers 22-24:

The municipality of Taal is well known in the “*EL PaSubaT Festival*”, (Empanada, Longanisa, Panutsa, Suman, Barong/Balisong at Tapa). Josie went to market to pay **Php 550** for the labor of her Barong. After giving her payment, Josie bought **one-half kilo of tapa** for **Php 250** and **one-half kilo of longanisa** for **Php 280** for their lunch. For her family’s merienda, she also bought **suman** for **Php 145.50**, **coffee** for **Php 120.25**, and **peanut brittle** for **Php 180.25**. To her surprise, the vendor gave **10% discount** for the total payment for family’s merienda alone.

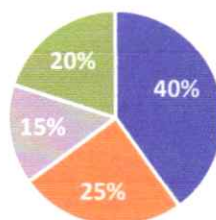
___22. How much is the **total amount** to paid by Josie as her payment for the labor in her **barong, cost of tapa, and longanisa**?

___23. How much is the **total amount** to be paid by Josie to their merienda alone?

___24. **List** the items for merienda together with its corresponding original price and **encircle** the total discount for merienda alone.

Use Pie Chart for items 25-26

Monthly Sales of Mathematics Books in National Bookstore -SM Lemery



■ January ■ February ■ March ■ April

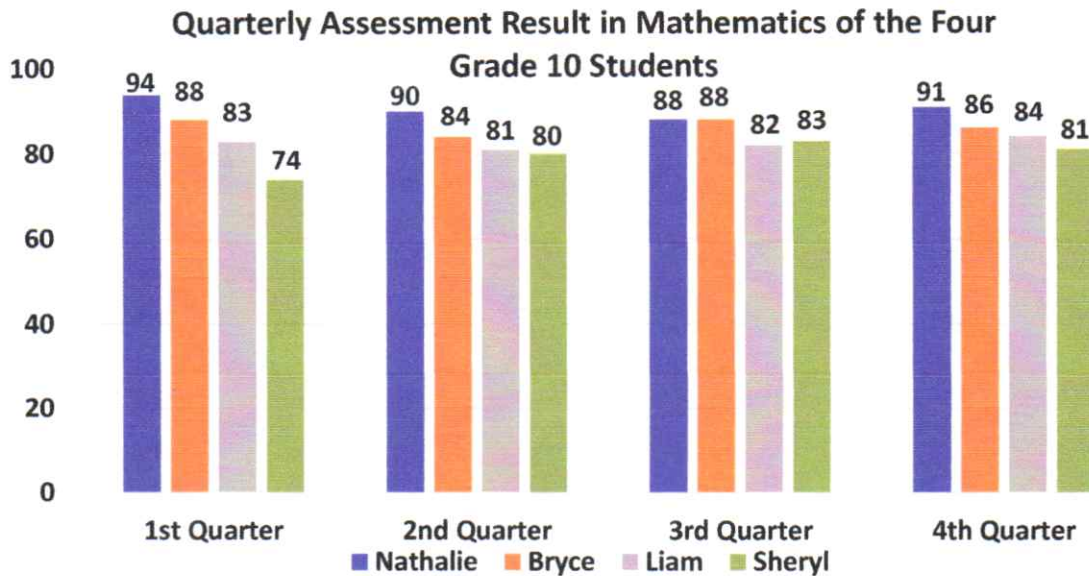
___25. What month has the **least percentage** sales of Mathematics books in National Bookstore- SM Lemery Batangas?

___26. If the number of sold out Mathematics book in January is **150 pieces, then how many** were sold in the month of April?



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Use Bar Graph below for questions 27-32



___27. Who obtained a **highest grade** in Quarterly Assessment in Mathematics for the first quarter?

___28. Who has a **failing grade** among the four Grade 10 students in the Quarterly Assessment in Mathematics?

___29. What is the **difference between the highest and lowest grades** in the Quarterly Assessment Result in Mathematics of the four Grade 6 students?

___30. What is the **average grade** of Nathalie for the 1st and 2nd quarter examination?

___31. What is the **average grade** of Bryce for the 1st and 4th quarter examination?

___32. Identify who garnered a **highest grade** from 1st to 4th quarter and **encircle** his/her average.



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Situations for item numbers 33-34

Four teachers namely Ava, Betty, Carla, and Dina need boxes of pencil and pads of paper to be given for the learners with outstanding character. But unfortunately, stocked is limited and they need to agree on the arrangement of sharing. Since there were only **138 boxes of pencil** and **72 boxes of pad paper**, Ava requested $\frac{1}{2}$ of the number of box of pencil and $\frac{1}{4}$ of the number of box of pad paper. The remaining stocked is to be equally divided by the three (3) teachers.

___33. How many **boxes of pencil** and **pad paper** are to be purchased by Teacher Ava?

___34. **List** the number of boxes of pencil and pad paper to be purchased by **each of the three teachers**?

___35. In Mathematics class, teacher Dotie directed to survey the color preference of his **81 students**. **One-third** ($\frac{1}{3}$) of the student-respondents revealed that red is the best. **How many students** were in favored with color red?

___36. Teacher Romy's research revealed that inflation makes lives difficult for people. He concluded that saving and spending money wisely could be of help to address the issue. He encouraged his students to save money from Monday to Sunday. **After a week**, one of the students reported that he has **Php 84**, how much is his savings for each day?

___37. *San Jose* is well known as "*Egg Basket of the Philippines*". Myrna needed appropriate ingredients for a perfect taste of leche plan. If **one (1) dozen** of egg produced **25 pcs of leche flan**, then how many dozen of egg **is needed** if she wants to prepare **375 pcs of leche flan**?

___38. Randy will be going to El Cielito Hotel, Sta.Rosa Laguna with Sonny to attend Training Workshop and Audit Simulation for Internal Quality Auditors. On their way to venue their driver filled **10 liters** of premium unleaded gas for a cost of **Php 50.25** per liter. How much is the total amount to be paid?

___39. Henry and Larry are Grade 10 students working together in a school library. The subjects are kept in order using Dewey Decimal System. As they arranging the books, they noticed that a file of **10 books is 10 inches high**. What is the **thickness of each** book in inches?



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___ 40. Nina wants to have customized bed sheet for her 3-queen size bed. She bought **18m** of cloth at the Flora's Fabric Store in Batangas City. Customized bed sheet is done and used **11m 30 cm**. How much cloth is **left**?

___ 41. Based on the result of the total number of Early Registration for Grade 10 of SDO Batangas Province for the last three years, it was found out that the total enrollment is increasing every school year. If the current total enrollment for Kindergarten SY 2024-2025 is **3,451**, and it is expected to **increase** by **144** students **each year**, determine the total enrollment for Grade 10 of SDO Batangas Province in **each SY** for the **next 2 years**?

___ 42. In a mathematics class for Grade 10, Sir Tino asked to find the following: **three (3) consecutive integers** whose **sum is 78**. What are the numbers?

___ 43. Sir Tino also asked to find **three (3) consecutive odd integers** whose **sum is 57**. What are the numbers?

___ 44. Tintin's mother is **older** than her by **18 years**. If the **sum** of their ages is **50**, how old is her **mother**?

___ 45. To release the stress from work for the whole week, Manny visited his son to go along with their family's farm. On their way, they found out that majority of the animals are cows and chicken. If the total number of cows and chicken is 15, and the sum of their legs is 50 how many are **cows** and **chicken**?

Situations for the numbers 46-50:

In Statistics class, Teacher Mon congratulated ten (10) students for being top in the recent quarterly examination. Their grades ranges from 88 to 99. The following grades were listed below:

88 90 88 95 92 99 94 91 98 93

___ 46. Arrange the grades in **ascending order**.

___ 47. Arrange the grades in **descending order**.

___ 48. What is the **mean** of top 10 students?

___ 49. What is the **median** of the top 10 students?

___ 50. What is the **mode** of the top 10 students?



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Key to Correction: Grade 10 Pre-Test
Numeracy Assessment for Exiting Grade of Key Stage 3

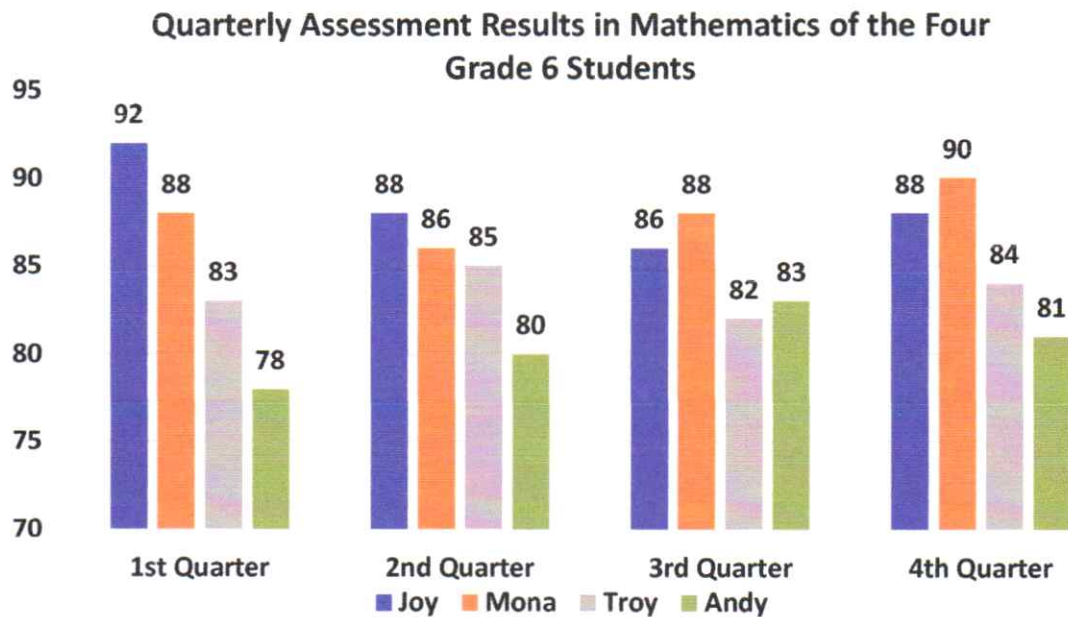
NOTE: Give half points IF the answer is correct BUT no corresponding unit

1. sum	11. multiplication	21. Php6,000 or P6,000.00	31. 87	41. SY2025-2026 =3,595 SY2026-2027 =3,739
2. 199 and 271	12. dividend	22. Php 1,080 or P1,080.00	32. Nathalie = 90.75	42. 25, 26, and 27
3. addition	13. 2	23. Php401.40 or 401.40	33. 69 boxes of pencil & 18 boxes of pad paper	43. 17, 19, and 21
4. 488	14. division	24. suman= Php 145.50 coffee=Php 120.26 peanut brittle= Php 180.25 Php 44.60	34. 23 boxes pencil 18 boxes pad paper	44. 34 yrs. old
5. 215	15. 70	25. March	35. 27 students	45. 10 cows and 5 chickens
6. 25	16. Php1,600 or P1,600.00	26. 75 pcs	36. Php 12 or P12.00/day	46. 88, 88, 90, 91, 92, 93, 94, 95, 98, 99
7. difference	17. 123	27. Nathalie	37. 15 dozen	47. 99, 98, 95, 94, 93, 92, 91, 90, 88, 88
8. subtraction	18. Php12 or P12.00	28. Sheryl	38. Php502.50 or P502.50	48. 92.80
9. 3,575	19. Php1,320 or 1,320.00	29. 20	39. 1 inch	49. 92.50
10. factors	20. Php50.50 or P50.50	30. 92	40. 6m and .70m or 6m and 70 cm	50. 88



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Use Bar Graph below for questions 26-31



___26. Who obtained the **highest grade** in Quarterly Assessment in Mathematics for the third quarter?

___27. Who got the **least grade** in the third quarter?

___28. What is the **difference** between Mona's grade in the 1st and 4th quarter?

___29. What is the **average grade of Andy** in the 1st and 2nd quarter examination?

___30. What is the **average grade of Joy** for the 1st and 4th quarter examination?

___31. Determine who among the four students got the **highest average** in the first to fourth quarter?

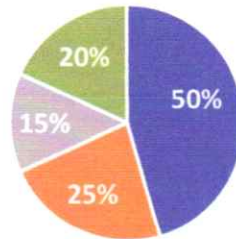


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Use Pie Chart for items 32-33

Percentage Score on Daily Sales of
Public Market Balayan

Fruit Stand in



■ Apple ■ Banana ■ Orange ■ Grapes

___32. What fruit has the **least percentage** sales?

___33. If the number of sold out apple is **210** pieces, then **how many pieces of banana** were sold in the Fruit Stand in Balayan Public Market?

Situations for item numbers 34-35

The foursome friends Eron, Migz, Lorna, and Rona were coincidentally met at San Pascual Public Market. They need boxes of pencil and pads of paper to be given for the learners with outstanding character. But unfortunately, stocked is limited and they need to agree on the arrangement of sharing. Since there were **150 boxes of pencil** and **80 boxes of pad paper** available, Lorna requested $\frac{1}{2}$ of the number of box of pencil and $\frac{1}{4}$ of the number of box of pad paper. The remaining number of boxes is to be equally divided by her three friends.

___34. How many **boxes of pencil** and **boxes of pad paper** are to be purchased by Lorna?

___35. **List** the remaining number of boxes of pencil and boxes of pad paper are to be purchased by **each of three friends of Lorna**.



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___36. In Mathematics class, teacher Melay directed to survey the color preference of his 144 students. **One-third** ($\frac{1}{3}$) of the student-respondents revealed that blue is the best. How many students were in favored with color blue?

___37. *San Jose* is well known as “Egg Basket of the Philippines”. On the birthday celebration of Linda, she needs to have appropriate ingredients for a perfect taste of leche plan. If **one (1) dozen** of eggs produce **48 pcs** of **leche flan**, then how many dozen of eggs are needed if Linda wants to prepare **144 pcs** of **leche flan**?

___38. Miguel and Ric will be going to El Cielito Hotel, Sta.Rosa Laguna to attend Training Workshop and Audit Simulation for Internal Quality Auditors. On their way to venue, their driver filled **5 gallons** of premium unleaded gas for a cost of **Php 625.50**. How much would it cost if Ric shared additional amount to make it **10 gallons** of premium unleaded gas?

___39. Mayeth and Cypre are Grade 6 students working together in a school library. The subjects were kept in order using Dewey Decimal System. As they were arranging the books, they noticed that a file of **60 books** is **10 cm high**. What is the thickness of each book in cm?

___40. Nina wants to have customized bed sheet for her queen size bed. She bought **12m 50 cm** of cloth at the Flora’s Fabric Store in Batangas City. Customized bed sheet is done and used **9m 25 cm**. How much cloth is **left**?



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Key to Correction: Grades 6 Mid-Year Test
Numeracy Assessment for Exiting Grade of Key Stage 2

NOTE: Give one-half points IF the answer is correct BUT no corresponding unit

1. sum	11. dividend	21. Php 50 or P50.00	31. Joy
2. 95 and 32	12. 3	22. Php 830 or P830.00	32. orange
3. addition	13. quotient	23. Php540 or P540.00	33. 105
4. 414	14. 15	24. Suman = 82.25 Coffee = 43.50 Peanut brittle=28.25 Php 15.40	34. 75 box pencil 20 box paper
5. 348	15. 64	25. Php 3000 or P3000.00	35. 25 box pencil 20 box paper
6. 110	16. 303	26. Mona	36. 48
7. difference	17. 205	27. Troy	37. 3
8. subtraction	18. Php1800 or P1,800.00	28. 2	38. Php1,251.00 or P1,251.00
9. 14,420	19. 176	29. 79	39. 6 cm
10. factors	20. Php849 or P849.00	30. 90	40. 3m 25cm



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**Numeracy Assessment for Exiting Grade of Key Stage 3
Grade 10 Mid-Year Test**

(Focusing on the Basic Concepts and Applications of
Addition, Subtraction, Multiplication and Division)

Name _____ No. of Correct Response: _____
School: _____ Numeracy Level: _____
Sub- Office: _____ Classification: _____

Directions: Read and understand carefully what is being asked in every number. Write the solution and encircle the correct answer if needed.

- ____ 1. In mathematical sentence or mathematical equation
 $101 + 245 = 346$, how do you call number **346**?
- ____ 2. Which are the **addends** in mathematical equation $101 + 245 = 346$?
- ____ 3. What mathematical operation is used in $101 + 245 = 346$?
- ____ 4. What is the **value of n** in mathematical sentence or mathematical equation $541 + 327 = n$?
- ____ 5. In mathematical expression $428 - 111$, what is the **minuend**?
- ____ 6. What is the **subtrahend** in mathematical expression $428 - 111$?
- ____ 7. In mathematical sentence or mathematical equation $428 - 111 = 539$,
what is 539?
- ____ 8. What **mathematical operation** is used in $428 - 111 = 539$?
- ____ 9. What is the product in mathematical expression 213×41 ?
- ____ 10. How do you call **213** and **41** in mathematical expression 213×41 ?
- ____ 11. What **mathematical operation** will be used in 213×41 ?
- ____ 12. In mathematical expression $785 \div 5$, **what do you call by 157**?
- ____ 13. In mathematical equation $785 \div 5 = 157$, **which is the divisor**?



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- ___ 14. What **mathematical operation** is used in $785 \div 5 = 157$?
- ___ 15. What is the **value** of n in mathematical sentence or mathematical equation $810 \div n = 270$?
- ___ 16. **“Fantasy World Batangas”** or the **“Disneyland of the Philippines”** is situated along Diokno Highway in Lemery, Batangas. The trisome friends Gina, Greg, and Elen visited their common friend Bobby’s hub and agreed to go to Fantasy World Batangas. As part of the policy of the place, one visitor shall pay **Php 150** as entrance fee. If Bobby has **2 invited guests**, Gina’s invited guest is **twice** the number of Bobby’s invited guests. Greg has **1 less** than the number of invited guests of Bobby. Elen has **4 more** invited guest than Greg. How much is **total entrance fee** of the foursome friends together with their invited guests?
- ___ 17. *Anilao, Mabini* is well known as the **“Scuba Diving Capital of Batangas”**. There were several tourists who admired and attracted on the place under sea level. One Saturday morning, there were **345 male** and **106 female** arrived on the place. On the following day, there were a total of **290 male** and **female** visited on the same place. What is the **difference** between the number of guests arrived from Saturday to Sunday?
- ___ 18. According to the news aired by TV Patrol, the 3 kilos of onion is worth **Php 543.00**. After two days of airing, 1 kilo of onion costs **Php 142**. How much is **reduced** in every kilo of onion?
- ___ 19. Benjie opened his piggy bank to buy medicine for his father. He gathered **Php 3300** but it is not enough to buy all medicines as prescribed by his father’s doctor. His brother Joven shared his **Php 2450** savings. The total amount of all prescribed medicines is **Php 6800**. How much money **is needed** by Benjie and Joven to buy all prescribed medicines?
- ___ 20. If someone needs atis for business, the best commercial place is Lobo, Batangas. On Sunday, Joneth bought one (1) kaing of atis which includes **7 kilos** for **Php 1400**. If Joneth’s price is **Php 260.00 per kilo**, how much is his net for every kilo of atis?
- ___ 21. Mr. and Mrs. Baltazar have **4 children** and the amount given by each child is **Php 800**. **Thrice the total amount** given by their children is the amount shared by Mr. and Mrs. Baltazar. How much is the total amount offered by the whole family?



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Situations for the numbers 22-24:

The municipality of Taal is well known in the “*EL PaSubaT Festival*”, (Empanada, Longanisa, Panutsa, Suman, Barong/Balisong at Tapa). Josie went to market to pay **Php 975** for the labor of her Barong. After giving her payment, Josie bought **one-half kilo of tapa** for **Php 280** and **one-half kilo of longanisa** for **Php 360** for their lunch. For her family’s merienda, she also bought **suman** for **Php 225.50**, **coffee** for **Php 230.25**, and **peanut brittle** for **Php 210.25**. To her surprise, the vendor gave **10% discount** for the total payment for family’s merienda alone.

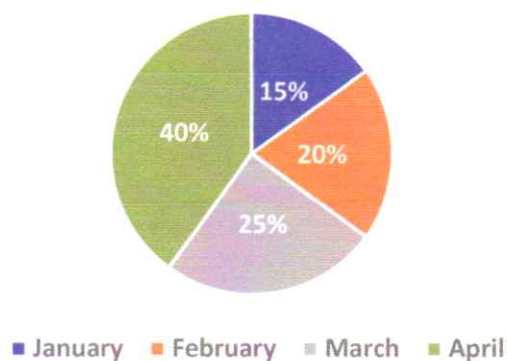
___22. How much is the **total amount** to paid by Josie as her payment for the labor in her **barong**, **cost of tapa**, and **longanisa**?

___23. How much is the **total amount** to be paid by Josie to their merienda alone?

___24. **List** the items for merienda together with its corresponding original price and encircle the total discount for merienda alone.

Use Pie Chart for items 25-26

Monthly Sales of Mathematics Books in National Bookstore -SM Lemery



___25. What month has the **least percentage** sales of Mathematics books in National Bookstore- SM Lemery Batangas?

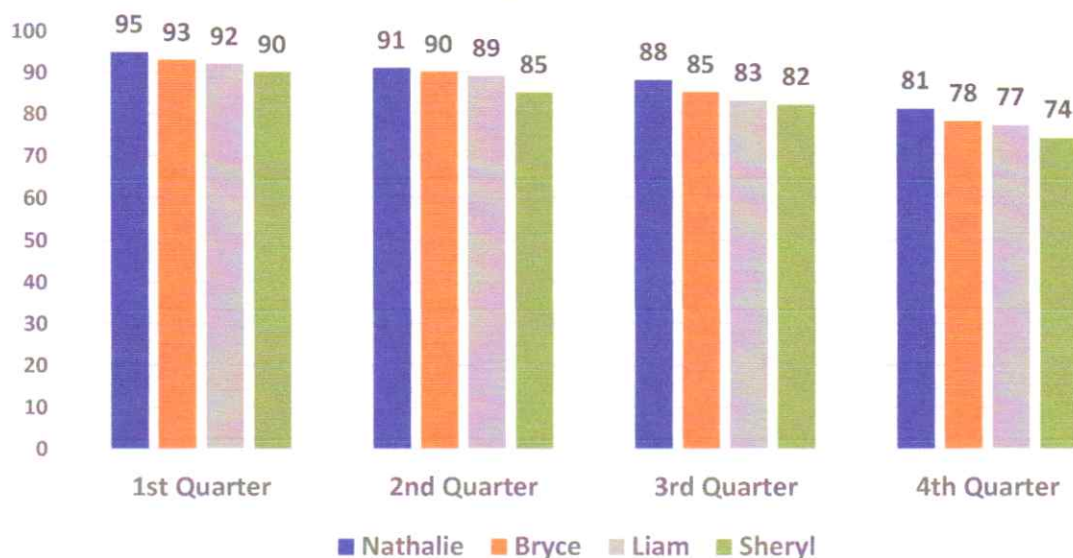
___26. If the number of sold-out Mathematics book in January is **300 pieces**, then **how many** were sold in the month of April?

Use Bar Graph below for questions 27-32



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Quarterly Assessment Result in Mathematics of the Four
Grade 10 Students



___27. Who obtained a **highest grade in Quarterly Assessment** in Mathematics for the first quarter?

___28. Who has a **failing grade among the four Grade 10 students** in the Quarterly Assessment in Mathematics?

___29. What is **the difference between the highest and lowest grades** in the Quarterly Assessment Result in Mathematics of the four Grade 6 students?

___30. What is the **average grade of Nathalie** for the 1st and 2nd quarter examination?

___31. What is the **average grade of Bryce** for the 1st and 4th quarter examination?

___32. Identify who obtained a **highest grade** from 1st to 4th quarter and **encircle** his/her average.



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Situations for item numbers 33-34

Four teachers namely Ava, Betty, Carla, and Dina need boxes of pencil and pads of paper to be given for the learners with outstanding character. But unfortunately, stocked is limited and they need to agree on the arrangement of sharing. Since there were only **144 boxes of pencil** and **96 boxes of pad paper**, Ava requested $\frac{1}{2}$ of the number of box of pencil and $\frac{1}{4}$ of the number of box of pad paper. The remaining stocked is to be equally divided by the three (3) teachers.

___33. How many **boxes of pencil** and **pad paper** are to be purchased by Teacher Ava?

___34. **List** the number of boxes of pencil and pad paper to be purchased by **each of the three teachers?**

___35. In Mathematics class, teacher Dotie directed to survey the color preference of his **96 students**. **One-third** ($\frac{1}{3}$) of the student-respondents revealed that red is the best. **How many students** were in favored with color red?

___36. Teacher Romy's research revealed that inflation makes lives difficult for people. He concluded that saving and spending money wisely could be of help to address the issue. He encouraged his students to save money from Monday to Sunday. After **a week**, one of the students reported that he has **Php 168**, how much is his savings for each day?

___37. *San Jose* is well known as "*Egg Basket of the Philippines*". Myrna needed appropriate ingredients for a perfect taste of leche plan. If **one (1) dozen** of egg produced **25 pcs of leche flan**, then how many dozen of egg is needed if she wants to prepare **225 pcs of leche flan?**

___38. Randy will be going to El Cielito Hotel, Sta.Rosa Laguna with Sonny to attend Training Workshop and Audit Simulation for Internal Quality Auditors. On their way to venue their driver filled **10 liters** of premium unleaded gas for a cost of **Php 102.25** per liter. How much is the total amount to be paid?

___39. Henry and Larry are Grade 10 students working together in a school library. The subjects are kept in order using Dewey Decimal System. As they arranging the books, they noticed that a file of **12 books is 18 inches high**. What is the **thickness of each** book in inches?



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___40. Nina wants to have customized bed sheet for her 3-queen size bed. She bought **20m** of cloth at the Flora's Fabric Store in Batangas City. Customized bed sheet is done and used **12m 45 cm**. How much cloth is **left**?

___41. Based on the result of the total number of Early Registration for Grade 10 of SDO Batangas Province for the last three years, it was found out that the total enrollment is increasing every school year. If the current total enrollment for Kindergarten SY 2024-2025 is **2,840**, and it is expected to **increase** by **135** students **each year**, determine the total enrollment for Grade 10 of SDO Batangas Province in **each SY** for the **next 2 years**?

___42. In a mathematics class for Grade 10, Sir Tino asked to find the following: **three (3) consecutive integers** whose **sum is 66**. What are the numbers?

___43. Sir Tino also asked to find **three (3) consecutive odd integers** whose **sum is 69**. What are the numbers?

___44. Tintin's mother is **older** than her by **20 years**. If the **sum** of their ages is **60**, how old is her **mother**?

___45. To release the stress from work for the whole week, Manny visited his son to go along with their family's farm. On their way, they found out that majority of the animals are cows and chicken. If the total number of cows and chicken is 18, and the sum of their legs is 54 how many are **cows** and **chicken**?

Situations for the numbers 46-50:

In Statistics class, Teacher Mon congratulated ten (10) students for being top in the recent quarterly examination. Their grades ranges from 88 to 99. The following grades were listed below:

87 92 89 94 91 96 92 88 95 90

___46. Arrange the grades in **ascending order**.

___47. Arrange the grades in **descending order**.

___48. What is the **mean** of top 10 students?

___49. What is the **median** of the top 10 students?

___50. What is the **mode** of the top 10 students?



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Key to Correction: Grades 10 Mid-Year Test
Numeracy Assessment for Exiting Grade of Key Stage 3

NOTE: Give half points IF the answer is correct BUT no corresponding unit

1. sum	11. multiplication	21. Php12,800 or P12,800.00	31. 85.5	41. SY2025- 2026 =2,975 SY2026- 2027 =3,110
2. 101 and 245	12. quotient	22. Php 1,615 or P1,615.00	32. Nathalie = 88.75	42. 21, 22, and 23
3. addition	13. 5	23. Php599.40 or 599.40	33. 72 boxes of pencil & 24 boxes of pad paper	43. 21, 23, and 25
4. 868	14. division	24. suman= Php 225.50 coffee=Php 230.26 peanut brittle= Php 210.25 Php 66.60	34. 24 boxes pencil 24 boxes pad paper	44. 40 yrs. old
5. 428	15. 3	25. January	35. 32 students	45. 9 cows and 9 chickens
6. 111	16. Php2,400 or P2,400.00	26. 800 pcs	36. Php 24 or P24.00/day	46. 87, 88, 89, 90, 91, 92, 92, 94, 95, 96
7. difference	17. 161	27. Nathalie	37. 9 dozen	47. 96, 95, 94, 92, 92, 91, 90, 89, 88, 87
8. subtraction	18. Php39 or P39.00	28. Sheryl	38. Php1,022.50 or P1,022.50	48. 91.40
9. 8,733	19. Php1,050 or 1,050.00	29. 21	39. 1.5 inches	49. 91.50
10. factors	20. Php60.00 or P60.00	30. 93	40. 7m and .55m or 7m and 55 cm	50. 92



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**Numeracy Assessment for Exiting Grade of Key Stage 4
Grade 12 Mid-Year Test**

(Focusing on the Basic Concepts and Applications of
Addition, Subtraction, Multiplication and Division)

Name _____ No. of Correct Response: _____
School: _____ Numeracy Level: _____
Sub- Office: _____ Classification: _____

Directions: Read and understand carefully what is being asked in every number. Write the solution and encircle the correct answer if needed.

- _____ 1. In mathematical sentence or mathematical equation
 $2,167 + 5,306 = 7,473$, how do you call number **7,473**?
- _____ 2. Which are the **addends** in mathematical equation
 $2,167 + 5,306 = 7,473$?
- _____ 3. What mathematical operation is used in equation
 $2,167 + 5,306 = 7,473$?
- _____ 4. What is the **value of n** in mathematical sentence or mathematical equation
 $1,278 + 3,353 = n$?
- _____ 5. In mathematical expression $1,432 - 1,123$, what is the **minuend**?
- _____ 6. What is the **subtrahend** in mathematical expression $3,127 - 1,297$?
- _____ 7. In mathematical sentence or mathematical equation
 $3,127 - 1,297 = 1,830$, **what is 1,830**?
- _____ 8. What mathematical operation is **used** in $2,422 - 1,290 = 1,132$?
- _____ 9. What is the product in mathematical expression **1,245 x 15**?
- _____ 10. How do you call **1,245** and **15** in mathematical expression
1,245 x 15?
- _____ 11. What mathematical operation is used mathematical expression
1,245 x 15?
- _____ 12. In mathematical expression $2,728 \div 22$, **what do you call by 2,728**?



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- ___ 13. In mathematical equation $2,728 \div 22 = 124$, **which is the divisor?**
- ___ 14. What mathematical operation is used in $2,728 \div 22 = 124$?
- ___ 15. What is the **value** of n in mathematical sentence or mathematical equation $4,228 \div n = 302$?
- ___ 16. **“Fantasy World Batangas”** or the **“Disneyland of the Philippines”** is situated along Diokno Highway in Lemery, Batangas. The trisome friends Anton, Ben and Carol visited their common friend Derek hub’s, and agreed to go to Fantasy World Batangas. As part of the policy of the place, one visitor shall pay **Php 120** as entrance fee. If Derek has **8 invited guests**, Anton invited guest is **twice** the number of Derek’s invited guests. Ben has **4 less** than the number of invited guests of Derek. Carol has **3 more** invited guest of Ben. How much is **total entrance fee** of the foursome friends together with their respective invited guests?
- ___ 17. **Anilao, Mabini** is well known as the **“Scuba Diving Capital of Batangas”**. There were several tourists who admired and attracted on the place under sea level. One Saturday morning there were **1,245 male** and **286 female** arrived on the place. On the following day, that is Sunday morning, there were a total of **1,480 male** and **female** visited on the same place. What is the **difference** between the number of guests arrived from Saturday to Sunday?
- ___ 18. According to the news aired by TV Patrol, the 6 kilos of onion is worth **Php 1,200.00**. After two days of airing, 1 kilo of onion costs **Php 80**. How much is **reduced** in every kilo of onion?
- ___ 19. Ronel opened his piggy bank to buy medicine for his father. He gathered **Php 3,200** but it is not enough to buy all medicines as prescribed by his father’s doctor. His sister Lanell shared her **Php 2,450** savings. The total amount of all prescribed medicines is **Php 6,500**. How much money **is needed** by Ronel and Lanell to buy all prescribed medicines?
- ___ 20. If someone needs atis for business, the best commercial place is Lobo, Batangas. On Sunday, Milette bought one (1) kaing of atis which includes **10 kilos** for **Php 1,850**. If Milette’s price is **Php 250 per kilo**, how much is his **net** per kilo?
- ___ 21. Mr. and Mrs. Garcia have **6 children**. Each child shared **Php 2,000** for the voluntary contribution. **Twice the total amount** given by their children is the amount shared by Mr. and Mrs. Garcia. How much is the total amount offered by the whole family?



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Situations for the numbers 22-24:

The municipality of Taal is well known in the “*EL PaSubaT Festival*”, (Empanada, Longanisa, Panutsa, Suman, Barong/Balisong at Tapa). Cheryll went to market to pay **Php 1,700** for the labor of her Barong. After giving her payment, Cheryll bought **one-half kilo of tapa** for **Php 200** and **one-half kilo of longanisa** for **Php 220** for their lunch. For her family’s merienda, she also bought **suman** for **Php 405.50**, **coffee** for **Php 250.25**, and **peanut brittle** for **Php 290.25**. To her surprise, the vendor gave **10% discount** for the total payment for family’s merienda alone.

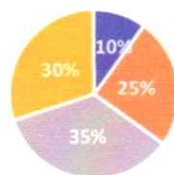
___22. How much is the **total amount** to paid by Cheryll as her payment for the labor in her **barong, cost of tapa, and longanisa**?

___23. How much is the **total amount** to be paid by Cheryll to their merienda alone?

___24. **List** the items for merienda together with its corresponding original price and **encircle** the total discount for merienda alone.

Use Pie Chart for items 25-26

**Monthly Sales of Mathematics Books in
National Bookstore -SM Lemery**



■ January ■ February ■ March ■ April

___25. What month has the **greatest percentage** sales of Mathematics books in National Bookstore- SM Lemery Batangas?

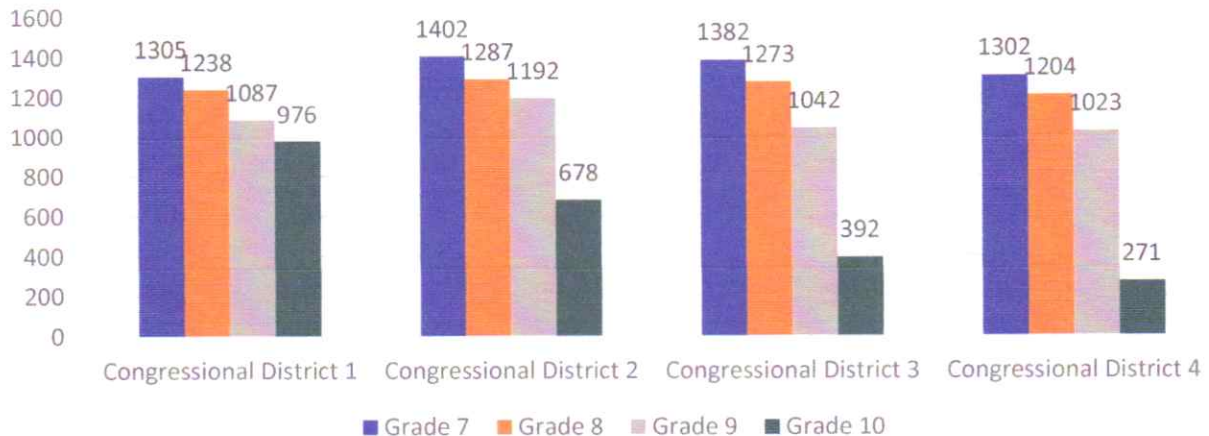
___26. If the number of sold-out Mathematics book in January is **1,500 pieces, then how many** were sold in the month of April?



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Use Bar Graph below for questions 27-32

Tentative Enrollment Data of SDO Batangas Province During Early Registration for the School Year 2024-2025



___27. What grade has the **highest tentative enrollment data** of SDO Batangas Province during Early Registration for the SY 2024-2025?

___28. What **Congressional District has a lowest tentative enrollment data** of SDO Batangas Province during Early Registration for the SY 2024-2025 in Grade 10?

___29. What is the **total tentative enrollment data** of SDO Batangas Province during Early Registration for the SY 2024-2025 in Congressional Districts 1-4 for Grade 7?

___30. What is the **difference between highest and lowest tentative enrollment data** of SDO Batangas Province during Early Registration for the SY 2024-2025 in Grade 8?

___31. What is the **average tentative enrollment data** of SDO Batangas Province during Early Registration for the SY 2024-2025 in Congressional Districts 1-4 for Grade 9?

___32. Identify which among the **Congressional Districts 1-4 has the highest and lowest tentative enrollment data** of SDO Batangas Province during Early Registration for the SY 2024-2025 in Grade 10 and encircle the difference.



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Situations for item numbers 33-34

The foursome friends were met in Shopping Center at San Juan Batangas. Avy, Bonnie, Carlo, and Delia need box of pencil and pad of paper to be given for the learners with outstanding character. But unfortunately, stocked is limited and they need to agree on the arrangement of sharing. Since there were only **1,098 boxes of pencil** and **1,280 boxes of pad paper**, Avy requested $\frac{1}{2}$ of the number of box of pencil and $\frac{1}{4}$ of the number of box of pad paper. The remaining stocked is to be equally divided by the three (3) friends.

___33. How many **boxes of pencil** and **boxes of pad paper** are to be purchased by Avy?

___34. **List** the number of boxes of pencil and pad paper to be purchased by **each of the three friends?**

___35. In Mathematics class, teacher Melay directed to survey the color preference of his **2,821 students**. **One-third ($\frac{1}{3}$)** of the student-respondents revealed that pink is the best. **How many students** were in favored with color pink?

___36. For teacher Peter, inflation makes lives difficult for people. He concluded that saving and spending money wisely could be of help to address the issue. He encouraged his students to save from Monday to Sunday. After **a week** one of the students reported that he has **Php 4, 270**, how much is his savings for each day?

___37. *San Jose* is well known as “*Egg Basket of the Philippines*”. On the birthday celebration of Daniela she needs to have appropriate ingredients for a perfect taste of leche plan. If **one (1) dozen** of egg produced **25 pcs of leche flan**, then how many dozen of egg is needed if she wants to prepare **3,575 pcs of leche flan?**

___38. Noel will be going to El Cielito Hotel, Sta.Rosa Laguna with Lina to attend Training Workshop and Audit Simulation for Internal Quality Auditors. On their way to venue their driver filled **18 liters** of premium unleaded gas for a cost of **Php 105.25** per liter. How much is the total amount to be paid?

___39. Mayeth and Cypre are Grade 6 students working together in a school library. The subjects are kept in order using Dewey Decimal System. As they arranging the books, they noticed that a file of **120 books is 1,480 inch high**. What is the **thickness of each** book in inches?



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___40. Nina wants to have customized bed sheet for her 5queen size bed. She bought **25 m** of cloth at the Flora's Fabric Store in Batangas City. Customized bed sheet is done and used **19m 40 cm**. How much **meter** cloth is **left**?

___41. Based on the result of the total number of Early Registration for Grade 10 of SDO Batangas Province for the last three years, it was found out that the total enrollment is increasing every school year. If the current total enrollment for Kindergarten SY 2024-2025 is **4,890**, and it is expected to **increase** by **350** students **each year**, determine the total enrollment for Grade 10 of SDO Batangas Province in **each SY** for the **next 2 years**?

___42. In a mathematics class for Grade 10, Sir Jojo asked to find the following: **three (3) consecutive integers** whose **sum is 2,976**. What are the numbers?

___43. Sir Jojo also asked to find **three (3) consecutive even integers** whose **sum is 2,700**. What are the numbers?

___44. Ruby's mother is **older** than her by **16 years**. If the **sum** of their ages is **60**, how old is her **mother**?

___45. To release the stress from work for the whole week, Sir Jimmy visited his nephew to go along at their family's farm. When they were passing around, they found out that majority of the animals are cows and chicken. If the total number of cows and chicken is 2,024, and the sum of their legs is 6,464 how many are **cows** and **chicken**?

Situations for the numbers 46-50:

In Statistics class, Sir Castro congratulated ten (10) students for being top in the recent quarterly examination. Their grades ranges from 88 to 99. The following grades were listed below:

88 92 85 97 91 99 94 92 93 95

___46. Arrange the grades in **ascending order**.

___47. Arrange the grades in **descending order**.

___48. What is the **mean** of top 10 students?

___49. What is the **median** of the top 10 students?

___50. What is the **mode** of the top 10 students?



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Key to Correction: Grades 12 Mid-Year Test
Numeracy Assessment for Exiting Grade of Key Stage 4

NOTE: Give half points IF the answer is correct BUT no corresponding unit

1. sum	11. multiplication	21. Php36,000 or P36,000.00	31. 1086	41. SY2025-2026 =5,240 SY2026-2027 =5,590
2. 2,167 and 5,306	12. dividend	22. Php 2,120 or P2,120.00	32. $976 - 271 =$ 705	42. 991, 992 and 993
3. addition	13. 22	23. Php851.40	33. 549 boxes of pencil & 320 boxes of pad paper	43. 898, 900 and 902
4. 4,631	14. division	24. suman= Php405.50 coffee=Php250.25 peanut brittle= Php290.25 Php 94.60	34. 183 boxes pencil 320 boxes of pad paper	44. 38 yrs. old
5. 1,432	15. 14	25. March	35. 940 students	45. 1,208 cows and 816 chicken
6. 1,297	16. Php4,680.00 or P4,680.00	26. 4, 500 pcs	36. Php 610 or P610.00/day	46. 85, 88, 91, 92, 92, 93, 94, 95, 97, 99
7. difference	17. 51 difference	27. Grade 7	37. 143 dozen	47. 99, 97, 95, 94, 93, 92, 92, 91, 88, 85
8. subtraction	18. Php120 or P120.00	28. Congressional District 4	38. Php 1,894.50 or P1,894.50	48. 92.60
9. 18,675	19. Php850 or P 850.00	29. 5,391	39. 12.33 inches	49. 92.50
10. factors	20. Php 65.00 or P65.00	30. 83	40. 5m and .60m or 5m and 60 cm	50. 92



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**Numeracy Assessment for Exiting Grade of Key Stage 1
Grade 3 Post Test**

(Focusing on the Basic Concepts and Applications of
Addition, Subtraction, Multiplication and Division)

Pangalan: _____ Bilang ng Tamang Sagot: _____
Paaralan: _____ Numeracy Level: _____
Sub- Opisina: _____ Classification: _____

Panuto: Basahin at unawain ang bawat bilang. Isulat ang sagot sa linyang nasa unahan, gawan ng solusyon at bilugan ang sagot kung kinakailangan.

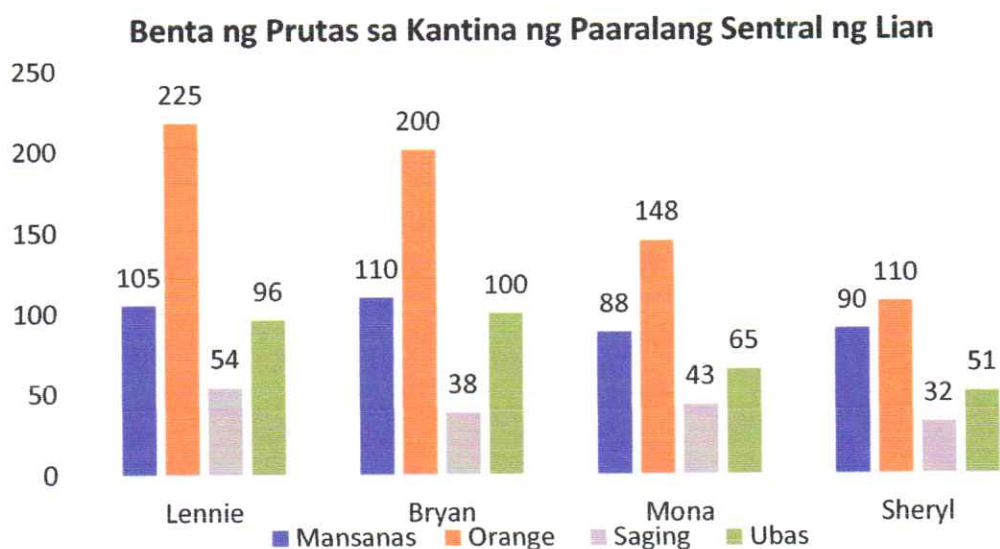
- _____ 1. Sa mathematical sentence or mathematical equation na $8 + 2 = 10$, ano ang tawag sa bilang na **10**?
- _____ 2. Alin ang **addends** sa mathematical sentence or mathematical equation, $8 + 2 = 10$?
- _____ 3. Ano ang **mathematical operation** na ginamit sa $8 + 2 = 10$?
- _____ 4. Ano ang **sagot** sa mathematical expression: $25 + 72$?
- _____ 5. Sa mathematical sentence or mathematical equation $95 - 24 = 71$, alin ang **minuend**?
- _____ 6. Alin naman ang **subtrahend** sa $95 - 24 = 71$?
- _____ 7. Sa mathematical sentence or mathematical equation $95 - 24 = 71$, **ano ang tawag sa sagot na 71**?
- _____ 8. Ano ang tawag sa **mathematical operation** na ginamit sa $95 - 24 = 71$?
- _____ 9. Sa mathematical expression 14×11 , ano ang tawag sa mga bilang na **14 at 11**?
- _____ 10. Ano ang product sa mathematical expression 14×11 ?



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- ___ 11. Ano ang mathematical operation na ginamit sa 14×11 ?
- ___ 12. Sa mathematical expression $100 \div 4$, ano ang tawag sa bilang na **100**?
- ___ 13. Alin ang divisor sa mathematical sentence na $100 \div 4 = 25$?
- ___ 14. Ano ang tawag sa 25 mula sa mathematical sentence na $100 \div = 25$?
- ___ 15. Ano ang **mathematical operation** na ginamit sa $100 \div 4 = 25$?

Gamitin ang Bar Chart para sa mga bilang 16-18



- ___ 16. Anong prutas ang **pinakamahinang benta** sa kantina ng Paaralang Sentral ng Lian?
- ___ 17. Sino ang may **pinakamataas na benta** ng orange?
- ___ 18. **Ilista** ang mga bentang mansanas nina Lennie, Bryan, Mona, at Sheryl. Bilugan ang kabuuang bilang ng kanilang bentang saging.



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____19. Masayang pinagdiriwang sa Lungsod ng Calaca ang “*Calacatsara Festival*”. Masarap ang atsara kaya naman paborito ito ni Ana na pangregalo sa kanyang mga panauhin. Bumili siya ng **apatnapu at limang (45)** bote ng atsara sa Pamilihan ng Lungsod ng Calaca noong Sabado. Ngunit naisip niya na kulang pa ito para sa mga darating na panauhin kaya bumili pa siya ng **sampu (10)** pang bote ng atsara. **Ilan lahat ang bote ng atsara** na nabili ni Ana?

____20. Tanyag ang tinapay biscocho sa bayan ng Tuy kaya naman maraming natanggap si Sev mula sa kanyang mga panauhin. Si Peter, na una niyang panauhin ay may dalang **24 balot na biscocho**. Si Jenny, ang pandalawang panauhin ay nagbigay din ng **3 balot na biscocho**. Ang pang tatlong panauhin na nakababata niyang kapatid ay dinalahan siya ng **4 kahon ng paborito niyang cassava cake**. **Ilan lahat ang balot na biscocho** ang natanggap ni Sev?

Sitwasyon para sa mga bilang na 21-22:

Kilala ang bayan ng Taal sa “*EL PaSubaT Festival*”, (**Empanada, Longanisa, Panutsa, Suman, Barong/Balisong at Tapa**). Si Lorie ay pumunta ng palengke ng Taal upang magbayad ng **Php 500** para sa patahing barong. Bumili siya ng **kalahating kilo ng tapa** sa halagang **Php 250** at **kalahating kilo ng longanisa** sa halagang **Php 100** para sa kanilang tanghalian. **Php 82 suman, Php 33 kapeng barako, at Php 25 panutsa** para sa kanilang meryenda.

____21. Magkano ang kabuuang halaga ang babayaran ni Lorie sa pinatahi niyang **barong, biniling tapa, at longanisa**?

____22. Kung **Php 500** ang binayad ni Lorie para sa meryenda ng kanyang pamilya, magkano ang ibabalik na sukli sa kanya ng tindera?

____23. Sinasabing “*Scuba Diving Capital of Batangas*” ang **Anilao, Mabini**. Maraming dumarayo sa lugar upang makita ang napakagandang tanawin sa ilalim ng karagatan. Noong araw ng Sabado ay may dumating na bisita sa Anilao Beach Resort na **38 lalaki at 24 na babae**. Kinabukasan ng Linggo ay mayroong kabuuang bilang lamang na **60 na lalaki at babae**, ano ang **difference** ng bilang ng mga bisita nang araw ng Sabado at Linggo?



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___ 24. May **2 dosenang** kalahok mula sa Sub-Opisina ng San Juan at **1 dosenang** kalahok mula sa Sub-Opisina ng Rosario ang dadayo para patimpalak ng STEMazing para sa kategoriya ng Science at Matematika. Kung ang **12 kalahok** ay para sa Science, **ilan ang kalahok** para sa **Matematika**?

___ 25. Nagbukas ng alkansiya si Jose upang mabili niya ang gamot sa botika ng bayan ng Sta. Teresita na kailangan inumin ng kanyang ina mula sa naimpok niyang pera. Ang laman ng alkansiya ay nagkakahalaga ng **Php 80**, ngunit ito ay **hindi sapat** para mabili niya lahat ang order ng doktor sa kanyang ina. May **naipon** din ang kanyang kapatid na si Mona mula sa kanyang baon na halagang **Php 55**. Ang kabuuan na halaga ng kumpletong gamot ay **Php 210**. **Magkano pa ang kailangan** ng magkapatid para mabili ang kumpletong gamot para sa kanilang ina?

___ 26. Tuwing may kalamidad, ang pamilya Amador ay nagkakaloob ng **tig Php 100** para sa mga nasalanta. Magkano lahat ang kabuuan ng bigay ng mag-anak kung sina G. at Gng Amador ay may **8 na anak**?

___ 27. Ang “*Little Boracay*” na matatagpuan sa *Calatagan, Batangas* ay isang isla na nasa gitna ng dagat. Kailangang sumakay sa balsa or “floating cottage”, para marating ang isla sa loob ng 10 minuto. Kung ano ang makikita sa totoong Boracay Aklan ay makikita rin sa *Little Boracay*. Dahil dito ay maraming naghahangad na makita at marating ang napakagandang lugar. Kailangan lang magbayad ng **Php 50 kada tao**. para sa eco-fee. Kung ang sakay sa floating cottage ay **15 na tao**, **magkano ang kabayaran para sa eco-fee**?

___ 28. Tanyag ang *Taysan* sa pagawaan ng semento. Nagbigay ang kumpanya ng **103 supot ng semento** kay Teacher Mhel. Ito ay donasyon para sa Brigada Eskwela ng paaralan. **Paghahatian ang 103 supot semento ng 5 na guro** mula baitang isa hanggang anim. **Ang labis na supot ng semento** ay para sa pagpapagawa naman ng silid-aralan ni Teacher Mhel. **Ilang supot ng semento ang matitira** para sa pagpapagawa ng silid-aralan ni Teacher Mhel matapos makuha ng anim na guro ang kanilang kabahagi?



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Sitwasyon para sa mga bilang 29-30:

Isang araw ng Sabado ay pumunta sa palengke ng San Pascual sina Gina at Lorena upang bumili ng lapis at papel. Doon ay nakita nila sina Marissa at Isabel na may parehong layunin. Ang pwede na lang mabili nilang apat ay **102 kahon ng lapis at 35 kahon ng papel**. Nagkasundo sila sa hatian ng mga aytems na kanilang bibilihin. **Kalahati ng bilang ng kahon ng lapis at 14 ng kahon ng papel** ay bibilhin ni Gina. Ang **matitirang bilang ng lapis at papel** ay paghahati-hatian ng 3 magkakaibigan.

- ___ 29. Ilang **kahon ng lapis at papel** ang mabibili ni Gina?
- ___ 30. Ilan ang bilang ng **kahon ng lapis at kahon ng papel** ang mabibil ng bawat isang magkakaibigan matapos mabayaran ni Gina ang para sa kanyang kabahagi ayon sa kanilang kasunduan?



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SUSI ng Pagwawasto: Grade 3 Post Test
Numeracy Assessment for Exiting Grade of Key Stage 1

1. sum	11. multiplication	21. Php850.00
2. 8 at 2	12. dividend	22. Php360 or P360.00
3. addition	13. 4	23. 2
4. 97	14. quotient	24. 24 kalahok para sa Matematika
5. 95	15. division	25. Php 75 or P75.00
6. 24	16. saging	26. Php 1000 or P1000.00
7. difference	17. Lennie	27. Php 750 or P750.00
8. subtraction	18. Lennie (105) Bryan (110) Mona (88) Sheryl (90) 393	28. 3 supot ng semento
9. multiplier and multiplicand or factors	19. 55 bote ng atsara	29. 51 kahon ng lapis 14 kahon ng papel
10. 154	20. 27 balot biscocho	30. 17 kahon ng lapis at 7 kahon ng papel



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Numeracy Assessment for Exiting Grade of Key Stage 2
Grade 6 Post Test

(Focusing on the Basic Concepts and Applications of
Addition, Subtraction, Multiplication and Division)

Name _____ No. of Correct Response: _____
School: _____ Numeracy Level: _____
Sub- Office: _____ Classification: _____

Directions: Read and understand carefully what is being asked in every number. Write the solution and encircle the correct answer if needed.

- ____ 1. In mathematical sentence or mathematical equation $87 + 41 = 128$, how do you call number **128**?
- ____ 2. Which are the **addends** in $87 + 41 = 128$?
- ____ 3. What mathematical **operation is used** in $87 + 41 = 128$?
- ____ 4. What is the **value of n** in mathematical sentence or mathematical equation $165 + 328 = n$?
- ____ 5. In mathematical expression $184 - 25$, what is the **minuend**?
- ____ 6. What is the **subtrahend** in mathematical expression $184 - 25$?
- ____ 7. In mathematical sentence or mathematical equation $84 - 25 = 159$, **what is 159**?
- ____ 8. What mathematical **operation is used** in $184 - 25 = 159$?
- ____ 9. What is the product in mathematical expression 123×15 ?
- ____ 10. How do you call **123** and **15** in mathematical expression: 123×15 ?
- ____ 11. In mathematical expression $164 \div 2$, **what is 164 stands for**?
- ____ 12. In mathematical equation $164 \div 2 = 82$, **which is the divisor**?



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___ 13. How do you call **82** in mathematical equation $164 \div 2 = 82$?

___ 14. What is the **value of n** in mathematical sentence or mathematical equation $96 \div n = 8$?

___ 15. What is the **quotient** in mathematical expression $125 \div 5$?

___ 16. Calacazens were happy and proud celebrating “Calacatchara Festival” during City Town Fiesta. Indeed, atchara is one of the delicacies in the City. Rina always buy atchara as her token and gift to her friends and relatives. She bought **one hundred thirty-two (132)** bottles of atchara in the Public Market last Saturday. She bought another **eighty-three (83) bottles of atchara** on Sunday morning. What is the **total number of bottles** bought by Rina?

___ 17. “Biscocho” is the famous bread in the municipality of Tuy. Romy gave **44 bundles of biscocho bread** to Danny. Mirasol also gave **18 bundles of biscocho** to Danny while his brother gave him **2 boxes** of his favorite **cassava cake**. How many **bundles of biscocho bread** did Danny receive?

___ 18. “**Fantasy World Batangas**” or the “**Disneyland of the Philippines**” is situated along Diokno Highway in Lemery, Batangas. The trisome friends Annie, Boyet, and Coby visited their common friend Donna to visit the Fantasy World Batangas. As part of the policy, one visitor shall pay **Php 100** as entrance fee. If Donna has **2 invited guests**, Annie’s invited guest is **twice the number of Donna’s invited guests**. Boyet has **no invited guest**, Coby has only **1 invited guest**, how much is **total entrance fee** to be paid?

___ 19. Anilao, Mabini is well known as the “**Scuba Diving Capital of Batangas**”. There were several tourists who admired and attracted on the place under sea level. One Saturday morning, **126 male** and **84 female** arrived on the place. On the following day, a total of **107 male** and **female** visited on the same place. What is the **difference** between the number of guests arrived from Saturday to Sunday?



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___20. Benjie opened his piggy bank to buy medicine for his father. He gathered **Php 815.50** but it is not enough to buy all prescribed medicines by his father's doctor. His brother Joven shared his **Php 254.50** savings. The total amount of all prescribed medicines is **Php 2000**. How much money is needed by Benjie and Joven to buy all prescribed medicines?

___21. If someone needs atis for business, the best commercial place is Lobo, Batangas. On Sunday, Joneth bought one (1) kaing of atis which includes **5 kilos** for **Php 500**. If Joneth's price is **Php 130 per kilo**, how much is his **net** for every kilo of atis?

Situations for the numbers 22-24:

The municipality of Taal is well known in the "*EL PaSubaT Festival*", (**E**mpanada, **L**onganisa, **P**anutsa, **S**uman, **B**arong/**B**alisong at **T**apa). Cora went to market to pay **Php 400** for the labor of her Barong. After giving her payment, Cora bought **one-half kilo of tapa** for **Php 200** and **one-half kilo of longanisa** for **Php 250** for their lunch. For her family's merienda, she also bought **suman** for **Php 52.25**, **coffee** for **Php 23.50**, and **peanut brittle** for **Php 18.25**. To her surprise, the vendor gave **10% discount** for the total payment for family's merienda alone.

___22. How much is the **total amount** to paid by Cora as her payment for the labor in her **barong**, **cost of tapa**, and **longanisa**?

___23. If Cora wants to buy another **one kilo** of **tapa** and **one kilo** of **longanisa**, how much is her **change** if she gave **Php 1000** peso bill?

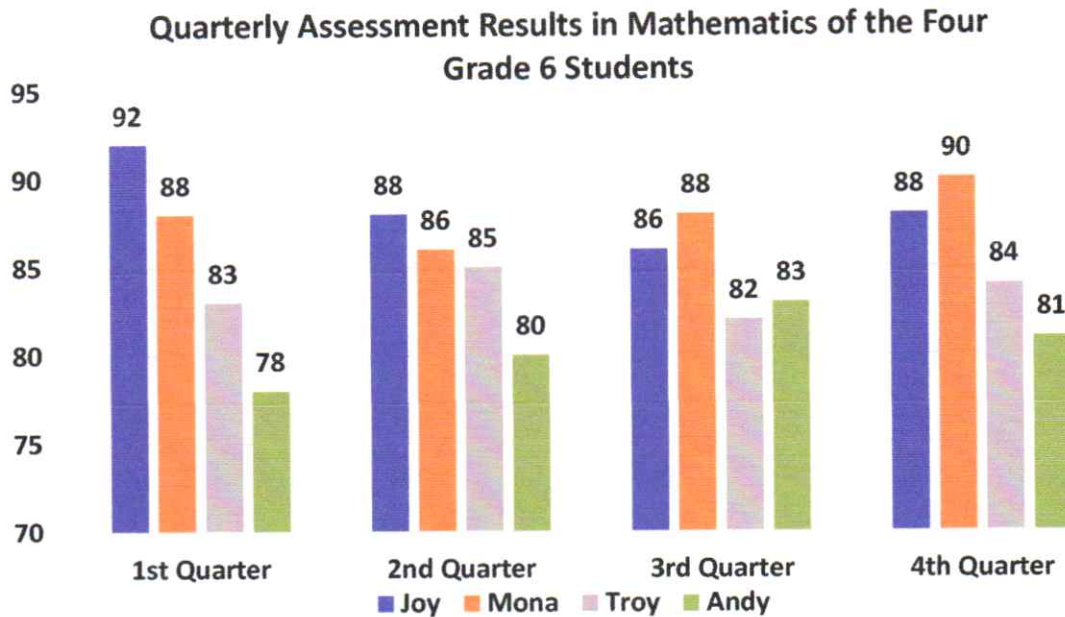
___24. **List** the items for merienda together with its corresponding price and encircle the **total discount** for merienda.

___25. Mr. and Mrs. Dela Vega have **6 children**. Each child shared **Php500** as support for the calamity assistance. The total amount given by their children is **equal** to the amount shared by Mr. and Mrs. De la Vega. How much is the **total amount** donated by the whole family?



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Use Bar Graph below for questions 26-31



___26. Who obtained the **highest grade** in Quarterly Assessment in Mathematics for the first quarter?

___27. Who got the **least grade** among the four students?

___28. What is the **difference** between the **highest** and **lowest grades** in the Quarterly Assessment Results in Mathematics of the four Grade 6 students?

___29. What is the **average grade of Joy** for the 1st and 2nd quarter examination?

___30. What is the **average grade of Mona** for the 1st and 4th quarter examination?

___31. Identify who has the **lowest grade from 1st to 4th quarter** and **encircle** his/her average.

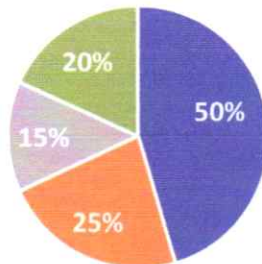


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Use Pie Chart for items 32-33

Percentage Score on Daily Sales of
Public Market Balayan

Fruit Stand in



■ Apple ■ Banana ■ Orange ■ Grapes

___ 32. What fruit has the **greatest percentage** sales?

___ 33. If the number of sold out apple is **120** pieces, then **how many pieces of banana** were sold in the Fruit Stand in Balayan Public Market?

Situations for item numbers 34-35

The foursome friends Eron, Migz, Lorna, and Rona were coincidentally met at San Pascual Public Market. They need boxes of pencil and pads of paper to be given for the learners with outstanding character. But unfortunately, stock is limited and they need to agree on the arrangement of sharing. Since there were **84 boxes of pencil** and **60 boxes of pad paper** available, Lorna requested $\frac{1}{2}$ of the number of box of pencil and $\frac{1}{4}$ of the number of box of pad paper. The remaining number of boxes is to be equally divided by her three friends.

___ 34. How many **boxes of pencil** and **boxes of pad paper** are to be purchased by Lorna?

___ 35. **List** the remaining number of boxes of pencil and boxes of pad paper are to be purchased by **each of three friends of Lorna**.



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___36. In Mathematics class, teacher Melay directed to survey the color preference of his 21 students. **One-third** ($\frac{1}{3}$) of the student-respondents revealed that blue is the best. How many students were in favored with color blue?

___37. *San Jose* is well known as “Egg Basket of the Philippines”. On the birthday celebration of Linda, she needs to have appropriate ingredients for a perfect taste of *leche plan*. If **one (1) dozen** of eggs produce **30 pcs** of **leche flan**, then how many dozen of eggs are needed if Linda wants to prepare **90 pcs** of **leche flan**?

___38. Miguel and Ric will be going to El Cielito Hotel, Sta.Rosa Laguna to attend Training Workshop and Audit Simulation for Internal Quality Auditors. On their way to venue, their driver filled **4 gallons** of premium unleaded gas for a cost of **Php 150.25**. How much would it cost if Ric shared additional amount to make it **8 gallons** of premium unleaded gas?

___39. Mayeth and Cypre are Grade 6 students working together in a school library. The subjects were kept in order using Dewey Decimal System. As they were arranging the books, they noticed that a file of **30 books** is **10 cm high**. What is the thickness of each book in cm?

___40. Nina wants to have customized bed sheet for her queen size bed. She bought **8m 75 cm** of cloth at the Flora’s Fabric Store in Batangas City. Customized bed sheet is done and used **7m 30 cm**. How much cloth is **left**?



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Key to Correction: Grades 6 Post Test
Numeracy Assessment for Exiting Grade of Key Stage 2

NOTE: Give one-half points IF the answer is correct BUT no corresponding unit

1. sum	11. dividend	21. Php 30 or P30.00	31. Andy 80.50
2. 87 and 41	12. 2	22. Php 850 or P850.00	32. apple
3. addition	13. quotient	23. Php100 or P100.00	33. 60
4. 493	14. 12	24. Suman= 52.25 Coffee = 23.50 Peanut brittle= <u>18.25</u> Php 9.40	34. 42 box pencil 15 box paper
5. 184	15. 25	25. Php 6000 or P6000.00	35. 14 box pencil 15 box paper
6. 25	16. 215	26. Joy	36. 7
7. difference	17. 62	27. Andy	37. 3
8. subtraction	18. Php1100 or P1,100.00	28. 14	38. Php300.50 or P300.50
9. 1,845	19. Php 103or P103.00	29. 90	39. 3 cm
10. factors	20. Php930 or P930.00	30. 89	40. 1m 45cm



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Numeracy Assessment for Exiting Grade of Key Stage 3
Grade 10 Post-Test

(Focusing on the Basic Concepts and Applications of
Addition, Subtraction, Multiplication and Division)

Name _____ No. of Correct Response: _____
School: _____ Numeracy Level: _____
Sub- Office: _____ Classification: _____

Directions: Read and understand carefully what is being asked in every number. Write the solution and encircle the correct answer if needed.

- _____ 1. In mathematical sentence or mathematical equation $182 + 171 = 353$, how do you call number **353**?
- _____ 2. Which are the **addends** in mathematical equation $182 + 171 = 353$?
- _____ 3. What **mathematical operation** is used in $182 + 171 = 353$?
- _____ 4. What is the **value of n** in mathematical sentence or mathematical equation $421 + 222 = n$?
- _____ 5. In mathematical expression $726 - 397$, what is the **minuend**?
- _____ 6. What is the **subtrahend** in mathematical expression $643 - 213$?
- _____ 7. In mathematical sentence or mathematical equation $643 - 213 = 430$, **what is 430**?
- _____ 8. What **mathematical operation** is used in $643 - 213 = 430$?
- _____ 9. What is the product in mathematical expression 278×17 ?
- _____ 10. How do you call **278** and **17** in mathematical expression 278×17 ?
- _____ 11. What **mathematical operation** will be used in 278×17 ?
- _____ 12. In mathematical expression $144 \div 48$, **what do you call by 144**?
- _____ 13. In mathematical equation $144 \div 48 = 3$, **which is the divisor**?
- _____ 14. What **mathematical operation** is used in $144 \div 48 = 3$?



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- ___ 15. What is the **value** of n in mathematical sentence or mathematical equation $546 \div n = 6$?
- ___ 16. **“Fantasy World Batangas”** or the **“Disneyland of the Philippines”** is situated along Diokno Highway in Lemery, Batangas. The trisome friends Gina, Greg, and Elen visited their common friend Bobby’s hub and agreed to go to Fantasy World Batangas. As part of the policy of the place, one visitor shall pay **Php 125** as entrance fee. If Bobby has **3 invited guests**, Gina’s invited guest is **twice** the number of Bobby’s invited guests. Greg has **2 less** than the number of invited guests of Bobby. Elen has **1 more** invited guest than Greg. How much is **total entrance fee** of the foursome friends together with their invited guests?
- ___ 17. *Anilao, Mabini* is well known as the **“Scuba Diving Capital of Batangas”**. There were several tourists who admired and attracted on the place under sea level. One Saturday morning, **367 male** and **198 female** arrived on the place. On the following day, there were a total of **218 male** and **female** visited on the same place. What is the **difference** between the number of guests guests arrived from Saturday to Sunday?
- ___ 18. According to the news aired by TV Patrol, the 4 kilos of onion is worth **Php 246.00**. After two days of airing, 1 kilo of onion costs **Php 51**. How much is **reduced** in every kilo of onion?
- ___ 19. Benjie opened his piggy bank to buy medicine for his father. He gathered **Php 960** but it is not enough to buy all medicines as prescribed by his father’s doctor. His brother Joven shared his **Php 545** savings. The total amount of all prescribed medicines is **Php 2,600**. How much money **is needed** by Benjie and Joven to buy all prescribed medicines?
- ___ 20. If someone needs atis for business, the best commercial place is Lobo, Batangas. On Sunday, Joneth bought one (1) kaing of atis which includes **5 kilos** for **Php 700**. If Joneth’s price is **Php 180.50 per kilo**, how much is his net for every kilo of atis?
- ___ 21. Mr. and Mrs. Alonzo have **4 children** and the amount given by each child is **Php 650**. **Twice the total amount** given by their children is the amount shared by Mr. and Mrs. Alonzo. How much is the total amount offered by the whole family?



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Situations for the numbers 22-24:

The municipality of Taal is well known in the “*EL PaSubaT Festival*”, (Empanada, Longanisa, Panutsa, Suman, Barong/Balisong at Tapa). Josie went to market to pay **Php 660** for the labor of her Barong. After giving her payment, Josie bought **one-half kilo of tapa** for **Php 370** and **one-half kilo of longanisa** for **Php 295** for their lunch. For her family’s merienda, she also bought **suman** for **Php 245.50**, **coffee** for **Php 220.25**, and **peanut brittle** for **Php 230.25**. To her surprise, the vendor gave **10% discount** for the total payment for family’s merienda alone.

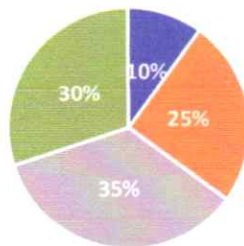
___22. How much is the **total amount** to paid by Josie as her payment for the labor in her **barong, cost of tapa, and longanisa**?

___23. How much is the **total amount** to be paid by Josie to their merienda alone?

___24. **List** the items for merienda together with its corresponding original price and **encircle** the total discount for merienda alone.

Use Pie Chart for items 25-26

Monthly Sales of Mathematics Books in National Bookstore -SM Lemery



■ January ■ February ■ March ■ April

___25. What month has the **least percentage** sales of Mathematics books in National Bookstore- SM Lemery Batangas?

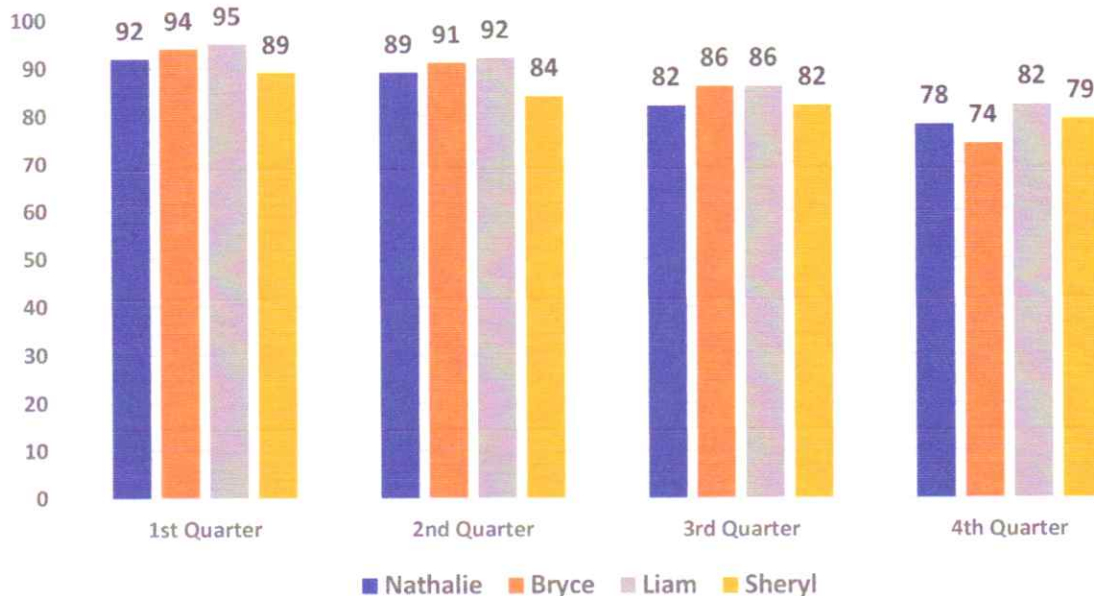
___26. If the number of sold-out Mathematics book in January is **1280 pieces, then how many** were sold in the month of April?



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Use Bar Graph below for questions 27-32

Quarterly Assessment Result in Mathematics of the Four Grade 10 Students



___27. Who obtained a **highest grade** in Quarterly Assessment in Mathematics for the first quarter?

___28. Who has a **failing grade** among the four Grade 10 students in the Quarterly Assessment in Mathematics?

___29. What is the **difference** between the highest and lowest grades in the Quarterly Assessment Result in Mathematics of the four Grade 6 students?

___30. What is the **average grade** of Nathalie for the 1st and 2nd quarter examination?

___31. What is the **average grade** of Bryce for the 1st and 4th quarter examination?

___32. Identify who obtained a **highest grade** from 1st to 4th quarter and **encircle** his/her average.



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Situations for item numbers 33-34

Four teachers namely Ava, Betty, Carla, and Dina need boxes of pencil and pads of paper to be given for the learners with outstanding character. But unfortunately, stocked is limited and they need to agree on the arrangement of sharing. Since there were only **126 boxes of pencil** and **64 boxes of pad paper**, Ava requested $\frac{1}{2}$ of the number of box of pencil and $\frac{1}{4}$ of the number of box of pad paper. The remaining stocked is to be equally divided by the three (3) teachers.

___33. How many **boxes of pencil** and **pad paper** are to be purchased by Teacher Ava?

___34. **List** the number of boxes of pencil and pad paper to be purchased by **each of the three teachers**?

___35. In Mathematics class, teacher Dotie directed to survey the color preference of his **72 students**. **One-third** ($\frac{1}{3}$) of the student-respondents revealed that red is the best. **How many students** were in favored with color red?

___36. Teacher Romy's research revealed that inflation makes lives difficult for people. He concluded that saving and spending money wisely could be of help to address the issue. He encouraged his students to save money from Monday to Sunday. After **a week**, one of the students reported that he has **Php 252**, how much is his savings for each day?

___37. *San Jose* is well known as "*Egg Basket of the Philippines*". Myrna needed appropriate ingredients for a perfect taste of leche flan. If **one (1) dozen** of egg produced **20 pcs of leche flan**, then how many dozen of egg is needed if she wants to prepare **460 pcs of leche flan**?

___38. Randy will be going to El Cielito Hotel, Sta.Rosa Laguna with Sonny to attend Training Workshop and Audit Simulation for Internal Quality Auditors. On their way to venue their driver filled **10 liters** of premium unleaded gas for a cost of **Php 120.25** per liter. How much is the total amount to be paid?

___39. Henry and Larry are Grade 10 students working together in a school library. The subjects are kept in order using Dewey Decimal System. As they arranging the books, they noticed that a file of **15 books is 30 inches high**. What is the **thickness of each** book in inches?



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___ 40. Nina wants to have customized bed sheet for her 3-queen size bed. She bought **24m** of cloth at the Flora's Fabric Store in Batangas City. Customized bed sheet is done and used **13m 35 cm**. How much cloth is **left**?

___ 41. Based on the result of the total number of Early Registration for Grade 10 of SDO Batangas Province for the last three years, it was found out that the total enrollment is increasing every school year. If the current total enrollment for Kindergarten SY 2024-2025 is **1,256**, and it is expected to **increase** by **245** students **each year**, determine the total enrollment for Grade 10 of SDO Batangas Province in **each SY** for the **next 2 years**?

___ 42. In a mathematics class for Grade 10, Sir Tino asked to find the following: **three (3) consecutive integers** whose **sum is 96**. What are the numbers?

___ 43. Sir Tino also asked to find **three (3) consecutive odd integers** whose **sum is 75**. What are the numbers?

___ 44. Tintin's mother is **older** than her by **22 years**. If the **sum** of their ages is **58**, how old is her **mother**?

___ 45. To release the stress from work for the whole week, Manny visited his son to go along with their family's farm. On their way, they found out that majority of the animals are cows and chicken. If the total number of cows and chicken is 20, and the sum of their legs is 64 how many are **cows** and **chicken**?

Situations for the numbers 46-50:

In Statistics class, Teacher Mon congratulated ten (10) students for being top in the recent quarterly examination. Their grades ranges from 88 to 99. The following grades were listed below:

88 92 95 91 99 94 92 97 93 96

___ 46. Arrange the grades in **ascending order**.

___ 47. Arrange the grades in **descending order**.

___ 48. What is the **mean** of top 10 students?

___ 49. What is the **median** of the top 10 students?

___ 50. What is the **mode** of the top 10 students?



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**Key to Correction: Grades 10 Post-Test
 Numeracy Assessment for Exiting Grade of Key Stage 3**

NOTE: Give half points IF the answer is correct BUT no corresponding unit

1. sum	11. multiplication	21. P7,800.00	31. 84	41. SY2025-2026 =1,501 SY2026-2027 =1,746
2. 182 and 171	12. dividend	22. Php 1,325 or P1,325.00	32. Liam = 88.75	42. 31, 32, and 33
3. addition	13. 48	23. Php626.40 or P626.40	33. 63 boxes of pencil & 16 boxes of pad paper	43. 23, 25, and 27
4. 643	14. division	24. suman= Php 245.50 coffee= Php 220.26 peanut brittle= Php 230.25 Php 69.60	34. 21 boxes pencil 16 boxes pad paper	44. 40 yrs. old
5. 726	15. 91	25. January	35. 24 students	45. 12 cows and 8 chickens
6. 213	16. Php2,000.00 or P2,000.00	26. 3,840 pcs	36. Php 36 or P36.00/day	46. 88, 91, 92, 92, 93, 94, 95, 96, 97, 99
7. difference	17. 347	27. Liam	37. 23 dozen	47. 99, 97, 96, 95, 94, 93, 92, 92, 91, 88
8. subtraction	18. Php10.50 or P10.50	28. Bryce	38. Php1,202.50 or P1,202.50	48. 93.7
9. 4,726	19. Php1,095.00 or P 1,095.00	29. 21	39. 2 inches	49. 93.50
10. factors	20. Php40.50 or P40.50	30. 90.5	40. 10m and .65m or 10m and 65 cm	50. 92



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**Numeracy Assessment for Exiting Grade of Key Stage 4
Grade 12 Post-Test**

(Focusing on the Basic Concepts and Applications of
Addition, Subtraction, Multiplication and Division)

Name _____ No. of Correct Response: _____
School: _____ Numeracy Level: _____
Sub- Office: _____ Classification: _____

Directions: Read and understand carefully what is being asked in every number. Write the solution and encircle the correct answer if needed.

- _____ 1. In mathematical sentence or mathematical equation $3,245 + 4,678 = 7,923$, how do you call number **7,923**?
- _____ 2. Which are the **addends** in mathematical equation $3,245 + 4,678 = 7,923$?
- _____ 3. What **mathematical operation** is used in equation $2,167 + 5,306 = 7,473$?
- _____ 4. What is the **value of n** in mathematical sentence or mathematical equation $2,568 + 3,741 = n$?
- _____ 5. In mathematical expression $2,854 - 1,642$, what is the **minuend**?
- _____ 6. What is the **subtrahend** in mathematical expression $4,915 - 2,378$?
- _____ 7. In mathematical sentence or mathematical equation $4,915 - 2,378 = 2,537$, **what is 2,537**?
- _____ 8. What **mathematical operation** is used in $5,280 - 3,181 = 2,099$?
- _____ 9. What is the **product** in mathematical expression $2,265 \times 12$?
- _____ 10. How do you call **2,265** and **12** in mathematical expression $2,265 \times 12$?
- _____ 11. What **mathematical operation** is used mathematical expression $2,265 \times 12$?
- _____ 12. In mathematical expression $2,678 \div 26$, **what do you call by 2,678**?
- _____ 13. In mathematical equation $2,678 \div 26 = 103$, **which is the divisor**?



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___ 14. What **mathematical operation** is used in $2,678 \div 26 = 103$?

___ 15. What is the **value** of n in mathematical sentence or mathematical equation $5,232 \div n = 327$?

___ 16. "**Fantasy World Batangas**" or the "**Disneyland of the Philippines**" is situated along Diokno Highway in Lemery, Batangas. The trisome friends Anton, Ben and Carol visited their common friend Derek hub's, and agreed to go to Fantasy World Batangas. As part of the policy of the place, one visitor shall pay **Php 250** as entrance fee. If Derek has **5 invited guests**, Anton invited guest is **twice** the number of Derek's invited guests. Ben has **3 less** than the number of invited guests of Derek. Carol has **2 more** invited guest of Ben. How much is **total entrance fee** of the foursome friends together with their respective invited guests?

___ 17. *Anilao, Mabini* is well known as the "**Scuba Diving Capital of Batangas**". There were several tourists who admired and attracted on the place under sea level. One Saturday morning **2,580 male** and **390 female** arrived on the place. On the following day, that is Sunday morning, **5,275 male** and **female** visited on the same place. What is the **difference** between the number of guests arrived from Saturday to Sunday?

___ 18. According to the news aired by TV Patrol, the 12 kilos of onion is worth **Php 3,200.00**. After two days of airing, 1 kilo of onion costs **Php 95**. How much is **reduced** in every kilo of onion?

___ 19. Ronel opened his piggy bank to buy medicine for his father. He gathered **Php 2,700** but it is not enough to buy all medicines as prescribed by his father's doctor. His sister Lanell shared her **Php 3,750** savings. The total amount of all prescribed medicines is **Php 7,500**. How much money **is needed** by Ronel and Lanell to buy all prescribed medicines?

___ 20. If someone needs atis for business, the best commercial place is Lobo, Batangas. On Sunday, Milette bought one (1) kaing of atis which includes **8 kilos** for **Php 1,240**. If Milette's price is **Php 120 per kilo**, how much is her **net** per kilo?

___ 21. Mr. and Mrs. Garcia have **6 children**. Each child shared **Php 3,500** for the voluntary contribution. **Twice the total amount** given by their children is the amount shared by Mr. and Mrs. Garcia. How much is the total amount offered by the whole family?



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Situations for the numbers 22-24:

The municipality of Taal is well known in the “*EL PaSubaT Festival*”, (Empanada, Longanisa, Panutsa, Suman, Barong/Balisong at Tapa). Cheryll went to market to pay **Php 3,575** for the labor of her Barong. After giving her payment, Cheryll bought **one-half kilo of tapa** for **Php 280** and **one-half kilo of longanisa** for **Php 225** for their lunch. For her family’s merienda, she also bought **suman** for **Php 305.50**, **coffee** for **Php 270.25**, and **peanut brittle** for **Php 310.25**. To her surprise, the vendor gave **10% discount** for the total payment for family’s merienda alone.

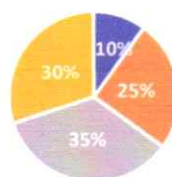
___22. How much is the **total amount** to paid by Cheryll as her payment for the labor in her **barong, cost of tapa, and longanisa**?

___23. How much is the **total amount** to be paid by Cheryll to their merienda alone?

___24. **List** the items for merienda together with its corresponding original price and **encircle** the total discount for merienda alone.

Use Pie Chart for items 25-26

**Monthly Sales of Mathematics Books in
National Bookstore -SM Lemery**



■ January ■ February ■ March ■ April

___25. What month has the **greatest percentage** sales of Mathematics books in National Bookstore- SM Lemery Batangas?

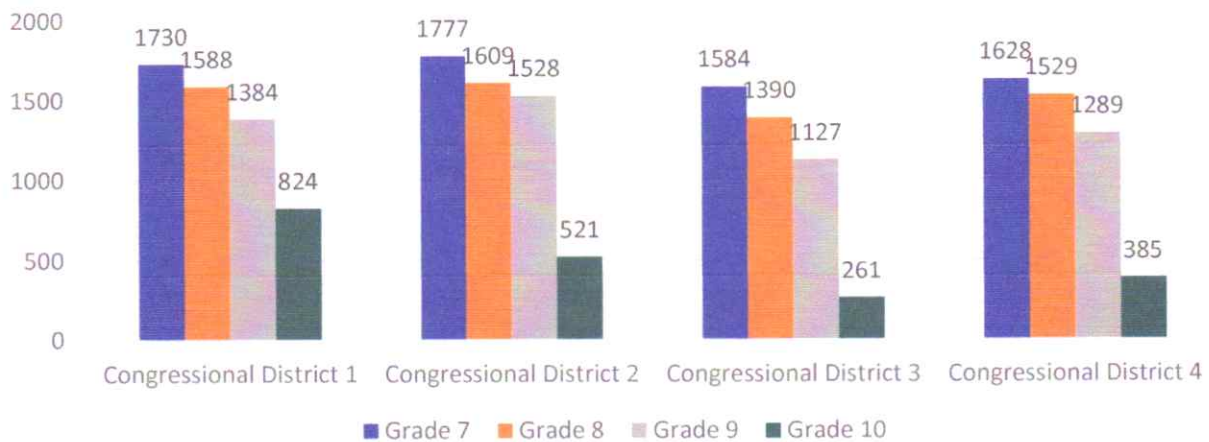
___26. If the number of sold-out Mathematics book in January is **1,450 pieces, then how many** were sold in the month of April?



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Use Bar Graph below for questions 27-32

Tentative Enrollment Data of SDO Batangas Province During Early Registration for the School Year 2024-2025



___27. What grade has the **highest tentative enrollment data** of SDO Batangas Province during Early Registration for the SY 2024-2025?

___28. What **Congressional District has a lowest tentative enrollment data** of SDO Batangas Province during Early Registration for the SY 2024-2025 in Grade 10

___29. What is the **total tentative enrollment data** of SDO Batangas Province during Early Registration for the SY 2024-2025 in Congressional Districts 1-4 for Grade 7?

___30. What is the **difference between highest and lowest tentative Enrollment data** of SDO Batangas Province during Early Registration for the SY 2024-2025 in Grade 8?

___31. What is the **average tentative enrollment data** of SDO Batangas Province during Early Registration for the SY 2024-2025 in Congressional Districts 1-4 for Grade 9?

___32. Identify which among the **Congressional Districts 1-4 has the highest and lowest tentative enrollment data** of SDO Batangas Province during Early Registration for the SY 2024-2025 in Grade 10 and **encircle** the difference.



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Situations for item numbers 33-34

The foursome friends were met in Shopping Center at San Juan Batangas. Avy, Bonnie, Carlo, and Delia need box of pencil and pad of paper to be given for the learners with outstanding character. But unfortunately, stock is limited and they need to agree on the arrangement of sharing. Since there were only **2,106 boxes of pencil** and **2,280 boxes of pad paper**, Avy requested $\frac{1}{2}$ of the number of box of pencil and $\frac{1}{4}$ of the number of box of pad paper. The remaining stocked is to be equally divided by the three (3) friends.

___33. How many **boxes of pencil** and **boxes of pad paper** are to be purchased by Avy?

___34. **List** the number of boxes of pencil and pad paper to be purchased by **each of the three friends?**

___35. In Mathematics class, teacher Melay directed to survey the color preference of his **1,821 students**. **One-third** ($\frac{1}{3}$) of the student-respondents revealed that pink is the best. **How many students** were in favored with color pink?

___36. For teacher Peter, inflation makes lives difficult for people. He concluded that saving and spending money wisely could be of help to address the issue. He encouraged his students to save from Monday to Sunday. After **a week** one of the students reported that he has **Php 1, 270**, how much is his savings for each day?

___37. *San Jose* is well known as "*Egg Basket of the Philippines*". On the birthday celebration of Daniela she needs to have appropriate ingredients for a perfect taste of leche plan. If **one (1) dozen** of egg produced **25 pcs of leche flan**, then how many dozen of egg is needed if she wants to prepare **4,575 pcs of leche flan?**

___38. Nena will be going to El Cielito Hotel, Sta.Rosa Laguna with Ana to attend Training Workshop and Audit Simulation for Internal Quality Auditors. On their way to venue their driver filled **22 liters** of premium unleaded gas for a cost of **Php 145.75** per liter. How much is the total amount to be paid?

___39. Mayeth and Cypre are Grade 6 students working together in a school library. The subjects are kept in order using Dewey Decimal System. As they arranging the books, they noticed that a file of **144 books is 1,152 inch high**. What is the **thickness of each** book in inches?



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___40. Nina wants to have customized bed sheet for her 5queen size bed. She bought **40 m** of cloth at the Flora's Fabric Store in Batangas City. Customized bed sheet is done and used **24 m 60 cm**. How much **meter** cloth is **left**?

___41. Based on the result of the total number of Early Registration for Grade 10 of SDO Batangas Province for the last three years, it was found out that the total enrollment is increasing every school year. If the current total enrollment for Kindergarten SY 2024-2025 is **4,200**, and it is expected to **increase** by **300** students **each year**, determine the total enrollment for Grade 10 of SDO Batangas Province in **each SY** for the **next 2 years**?

___42. In a mathematics class for Grade 10, Sir Jojo asked to find the following: **three (3) consecutive integers** whose **sum is 3,276**. What are the numbers?

___43. Sir Jojo also asked to find **three (3) consecutive even integers** whose **sum is 3,600**. What are the numbers?

___44. Ruby's mother is **older** than her by **18 years**. If the **sum** of their ages is **72**, how old is her **mother**?

___45. To release the stress from work for the whole week, Sir Jimmy visited his nephew to go along at their family's farm. When they were passing around, they found out that majority of the animals are cows and chicken. If the total number of cows and chicken is 2,500, and the sum of their legs is 7,800 **how many are cows and chicken**?

Situations for the numbers 46-50:

In Statistics class, Sir Castro congratulated ten (10) students for being top in the recent quarterly examination. Their grades ranges from 88 to 99. The following grades were listed below:

86 90 89 98 92 99 95 90 93 97

___46. Arrange the grades in **ascending order**.

___47. Arrange the grades in **descending order**.

___48. What is the **mean** of top 10 students?

___49. What is the **median** of the top 10 students?

___50. What is the **mode** of the top 10 students?



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Key to Correction: Grades 12 Post-Test
Numeracy Assessment for Exiting Grade of Key Stage 4

NOTE: Give half points IF the answer is correct BUT no corresponding unit				
1. sum	11. multiplication	21. Php63,000 or P63,000.00	31. 1,332	41. SY2025-2026 =4,500 SY2026-2027 =4,800
2. 3,245 and 4,678	12. dividend	22. Php 4,080 or P4,080.00	32. $824 - 261 =$ 563	42. 1,091, 1,092, and 1,093
3. addition	13. 26	23. Php797.40	33. 1,053 boxes pencil & 570 boxes pad paper	43. 1,198, 1,200 and 1,202
4. 6,309	14. division	24. suman= Php305.50 coffee=Php270.25 peanut brittle= Php310.25 Php 88.60	34. 351 boxes pencil & 570 boxes pad paper	44. 45 yrs. old
5. 2,854	15. 16	25. March	35. 607 students	45. 1400 cows & 1,100 chicken
6. 2,378	16. Php6,250.00 or P6,250.00	26. Php4,350.00 or P4,350.00	36. Php 181.43 or P181.43/day	46. 86, 89, 90, 90, 92, 93, 95, 97, 98, 99
7. difference	17. 2,305	27. Grade 7	37. 183 dozen	47. 99, 98, 97, 95, 93, 92, 90, 90, 89, 86
8. subtraction	18. Php171.67 or P171.67	28. Congressional District 3	38. Php3,206.50 or P3,206.50	48. 92.9
9. 27,180	19. Php1,050.00 or P 1,050.00	29. 6,719	39. 8 inches	49. 92.50
10. factors	20. Php35.00 or P 35.00	30. 219	40. 15m and .40m or 15m and 40 cm	50. 90