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DepED
DEPARTMENT OF EDUCATION

Learning Activity Sheet for Mathematics

Quarter 3

Lesson

7

Worksheet for Mathematics Grade 7
Quarter 3: Lesson 7 (Week 7)
SY 2024-2025

Development Team

Writer:

- Kemmons S. Kilat (Silliman University)

Validator:

- Clemente M. Aguinaldo Jr. (Philippine Normal University – North Luzon)

Management Team

Philippine Normal University
Research Institute for Teacher Quality
SiMERR National Research Centre

LEARNING ACTIVITY SHEET

Learning Area:	Mathematics	**Quarter:**	3
Lesson No.:	7	**Date:**	
Lesson Title/ Topic:	Simplification of numerical expressions involving integers		
Name:		**Grade & Section:**	

I. Activity No. 1: Pretest (20 minutes)

II. Objective(s): By the end of this activity, the learners are able to use the four operations with integers.

III. Materials Needed: pens

IV. Instructions: Perform the indicated operations on integers and write the results in the space provided.

1) $6 - 12 + 2 =$ _____
2) $11 + 14 - 2 =$ _____
3) $-12 - 5 - 10 =$ _____
4) $5 + 13 + 6 =$ _____
5) $3\ (-4) =$ _____
6) $(-5)\ (-9) =$ _____
7) $-3\ (4) =$ _____
8) $-7\ (-8) =$ _____
9) $8\ (-9) =$ _____
10) $(-12)\ (12) =$ _____
11) $-24 \div 12 =$ _____
12) $-45/9 =$ _____
13) $-80 \div -4 =$ _____
14) $-75 \div 25 =$ _____
15) $-60 \div -30 =$ _____
16) $-68 \div -2 =$ _____

V. Synthesis/Extended Practice/Differentiation (if needed):

1. How did you arrive at your answers?

_____
_____
_____
_____
_____

2. How did you find the activity? Can you share and describe your experience?

_____
_____
_____
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_____

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I. Activity No. 2: Problem Set 1 (15 minutes)

II. Objective(s): By the end of this activity, the learners are able to simplify numerical expressions involving integers using GEMDAS.

III. Materials Needed: pens

IV. Instructions: Simplify the following numerical expressions involving integers with solutions and write final answers in the space provided.

1) $4 + 3 \times 2 =$ _____
2) $7 - (2 \times 3)^2 =$ _____
3) $2^4 + 8 \div (3+1) =$ _____
4) $(6 + 2) \times 3 - 25 =$ _____
5) $10 - 2 \times (4 - 1) =$ _____
6) $3^2 + (4 \div 2) =$ _____
7) $15 \div (2+1) - 4^2 =$ _____
8) $2 \times (7 - 3) + 5^0 =$ _____
9) $12 - 2 \times (3^2 - 1) =$ _____
10) $(8 + 2)^2 \div 5 - 21 =$ _____

V. Synthesis/Extended Practice/Differentiation (if needed):

1. What challenges did you encounter in solving the problems?

_____
_____
_____
_____
_____

LEARNING ACTIVITY SHEET

Learning Area:	Mathematics	**Quarter:**	3
Lesson No.:	7	**Date:**	
Lesson Title/ Topic:	Simplification of numerical expressions involving integers		
Name:		**Grade & Section:**	

I. Activity No. 3: Problem Set 2 (15 minutes)

II. Objective(s): By the end of this activity, the learners are able to solve real-world problems involving integers using GEMDAS.

III. Materials Needed: pens

IV. Instructions: Write a numerical expression to represent each situation in the problem. Solve each problem using GEMDAS. Label your final answers properly in sentence form.

Problems:

1. John withdrew P1000 from his bank account. He used P300 for gas, P50 to buy a cellphone load, bought 3 pens for P40 each, and sponsored to watch a movie with a special friend at a cinema for P200 each. How much money is left for John?

2. Maria bought 3 boxes of pencils, each containing 8 pencils at P2 per pencil. She also bought 2 notebooks at P5 each. If she gives the cashier P100, how much change should she receive?

V. Synthesis/Extended Practice/Differentiation (if needed):

1. What challenges did you encounter in finishing the activity?

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LEARNING ACTIVITY SHEET

Learning Area:	Mathematics	**Quarter:**	3
Lesson No.:	7	**Date:**	
Lesson Title/ Topic:	Simplification of numerical expressions involving integers		
Name:		**Grade & Section:**	

I. Activity No. 4: Problem Set 3 (50 minutes)

II. Objective(s): By the end of this activity, the learners are able to solve problems involving integers using GEMDAS.

III. Materials Needed: pens

IV. Instructions:

A. **Simplifying numerical expressions.** Simplify the numerical expressions involving integers with solutions and box your final answers. (2 points each)

1) Solve $5 + 3 \times 2$.

2) Evaluate $4^2 \div (3 + 1) - 6$.

3) Simplify $3 \times (5 - 2)^2 + 4$.

4) Find the value of $2^3 + 6 \div (3 - 1)$.

5) If $x = 4$ and $y = 2$, what is the value of $x^2 + 2 \times y$?

6) Calculate $7 - 2 \times (4 + 1)$.

7) Simplify $9 \div (2 + 1) + 2^2$.

8) If $a = 3$ and $b = 2$, find $a^2 + b \times 3 - 1$.

9) Evaluate $10 - 3 \times (2^2 - 1)$.

10) What is the result of $(5 + 1)^2 \div 4 - 2$?

B. **Word Problems**. Write a numerical expression to represent the situation in the problem. Solve the problem using GEMDAS. Label your final answers properly in sentence form. (5 points each)

1. Peter withdrew P10,000 from his bank account. He used P3,000 to fix his car, P500 for gas, and bought 4 new tires for P1,600 each. How much money is left for Peter?

2. Roxanne bought 3 boxes of apples, each containing 24 apples at P5 each. She also bought 2 boxes of bananas at P280 per box. If she gives the cashier P1,000, how much change should she receive?

V. Synthesis/Extended Practice/Differentiation (if needed):

1. How did you arrive at your answers?

_____

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2. How did you find the activity? Can you share and describe your experience?

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