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DepED
DEPARTMENT OF EDUCATION

Learning Activity Sheet for Mathematics

Quarter 1
Lesson
2

Learning Activity Sheet for Mathematics Grade 8
Quarter 1: Lesson 2 (Week 2)
SY 2025-2026

Development Team

Writer:

- Yahweh M. Pasahol (Pedro Guevara Memorial National High School)

Validator:

- Roldan S. Cardona (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:**	1
Lesson No.:	2	**Date:**	
Lesson Title/ Topic:	Translate real-life situations into algebraic expressions.		
Name:		**Grade & Section:**	

I. Activity No. 1: WORD HUNT (5 minutes)

II. Objective(s): At the end of the activity, you should be able to identify words that are associated with addition, subtraction, multiplication or division that can help you translate real-life situations into algebraic expressions.

III. Materials Needed: pen or marker and activity sheet

IV. Instructions: Draw a line or shade the words that illustrate addition, subtraction, multiplication or division. The words you need to find are written below.

F	D	S	U	B	T	R	A	C	T	E	D
S	U	M	P	T	R	M	R	A	T	I	O
M	T	C	U	D	O	R	P	T	W	J	E
D	H	C	N	R	D	T	N	F	D	I	C
D	E	O	E	E	W	E	A	O	E	L	N
Y	F	S	D	Y	I	J	X	L	H	E	E
V	M	D	A	T	R	T	L	Q	S	S	R
R	A	U	O	E	C	I	W	T	N	S	E
P	S	U	V	Q	R	J	Y	D	I	V	F
N	Q	W	X	A	Z	C	I	J	M	R	F
G	Z	L	W	R	Y	H	N	H	I	Q	I
F	O	G	E	H	O	P	F	I	D	C	D

V. Synthesis:

1. Which words represent addition? Subtraction? Multiplication? Division? Are there words you know that are not on the list but can represent addition, subtraction, multiplication or addition?

   _____

   _____

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

   _____

   _____

LEARNING ACTIVITY SHEET

Learning Area:	Mathematics	**Quarter:**	1
Lesson No.:	2	**Date:**	
Lesson Title/ Topic:	Addition and subtraction of monomials, binomials and multinomials.		
Name:		**Grade & Section:**	

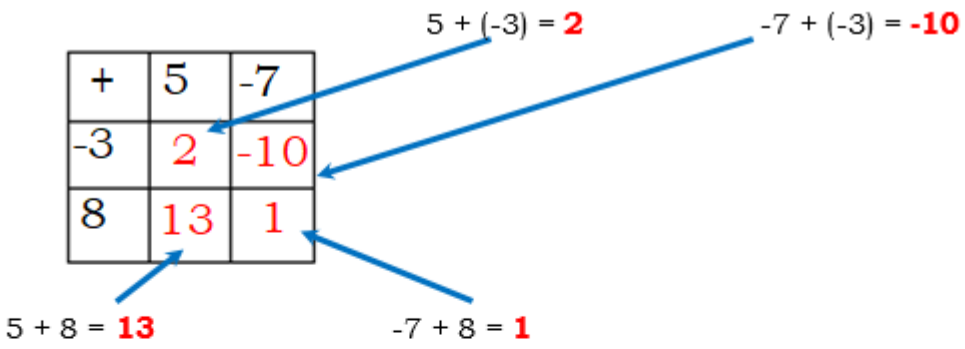
I. **Activity No. 2:** Addition and Subtraction Squares (5 minutes)

II. **Objective(s):** At the end of the activity, you should be able to recall how to add and subtract integers.

III. **Materials Needed:** pen and activity sheet

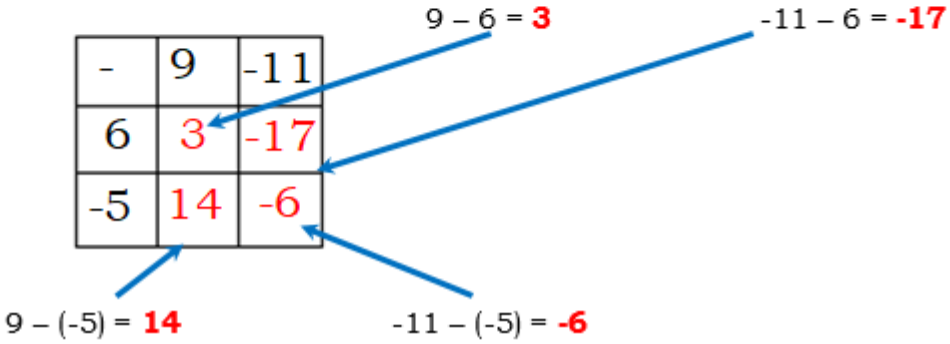
IV. **Instructions:** Complete the squares by adding or subtracting the integers. Examples are given as your guide to fill in the missing boxes.

Example 1:



+	5	-7
-3	2	-10
8	13	1

Example 2:



-	9	-11
6	3	-17
-5	14	-6

+	8	-3
4		
-2		

+	-6	-9
7		
-5		

-	11	-8
3		
-4		

-	12	-10
0		
7		

V. Synthesis:

1. What are the rules you applied in adding and subtracting integers?

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

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LEARNING ACTIVITY SHEET

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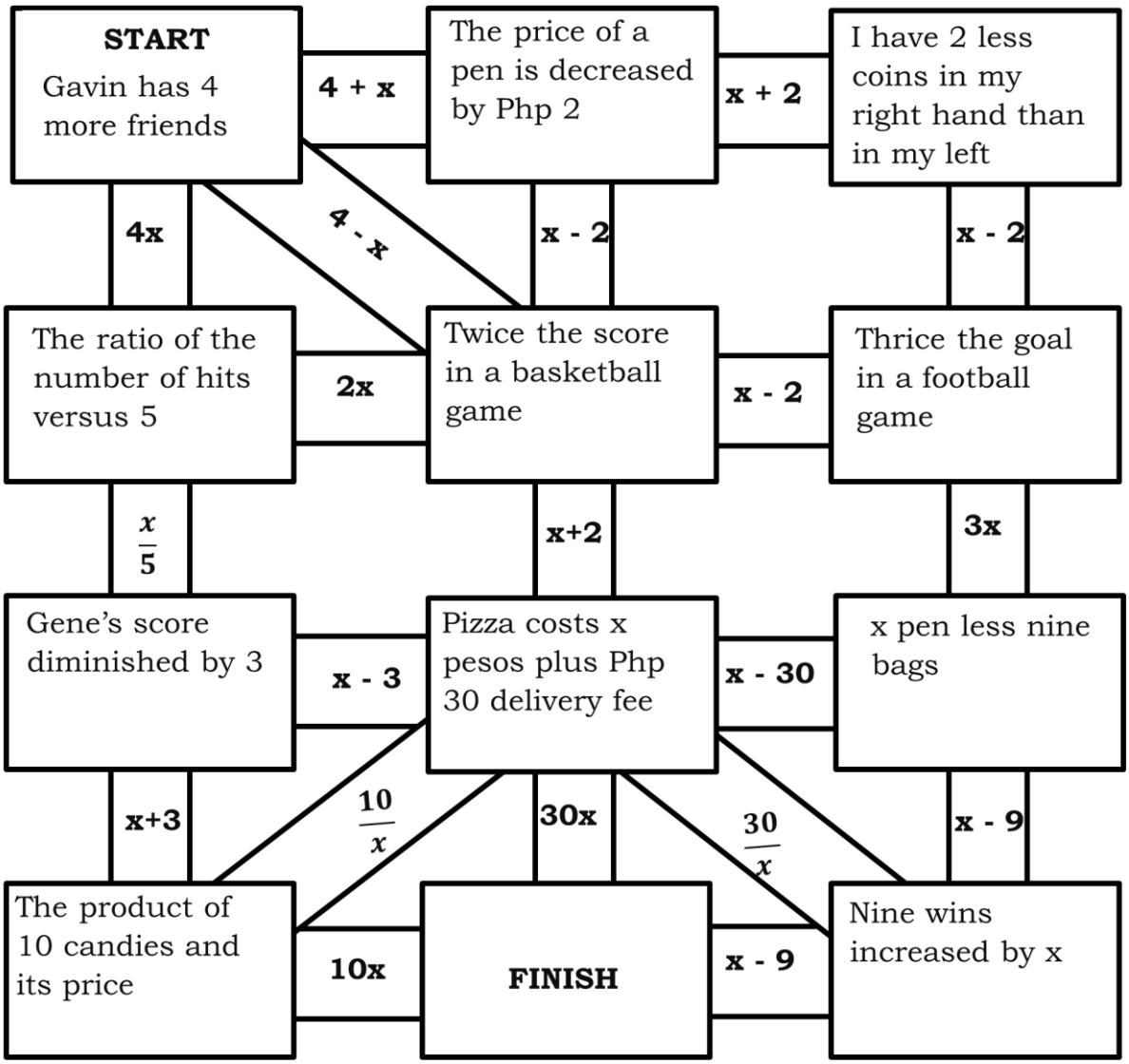
Lesson No.:	2	**Date:**	
Lesson Title/ Topic:	Translate real-life situations into algebraic expressions.		
Name:		**Grade & Section:**	

I. **Activity No. 3:** Maze to Amaze (10 minutes)

II. **Objective(s):** At the end of the activity, you should be able to represent quantities in real-life situations using algebraic expressions.

III. **Materials Needed:** pen, marker and activity sheet

IV. **Instruction:** Translate each statement into algebraic expression. Begin at the "start" and shade the given real-life situation and its corresponding algebraic expression. Continue to follow the path until you hit the finish line.



V. **Synthesis:**

1. What made you easily find the path to the finish line?

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

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LEARNING ACTIVITY SHEET

Learning Area:	Mathematics	**Quarter:**	1
Lesson No.:	2	**Date:**	
Lesson Title/ Topic:	Addition and subtraction of monomials, binomials and multinomials		
Name:		**Grade & Section:**	

I. Activity No. 4: (10 minutes)

II. Objective(s): At the end of the activity, you should be able to add and subtract monomials.

III. Materials Needed: pen and activity sheet

IV. Instruction: Find the sum or difference of the following monomials.

1. $2x + (-5x)$
2. $-2a^2 - (-6a^2)$
3. $y + (-y)$
4. $-9x^2y^3 - (-9x^2y^3)$
5. $12ab^2 - ab^2$
6. $-16mn^3 + (-12mn^3)$
7. $10a^2b^3 - (-8\ a^2b^3) + a^2b^3$
8. $7xy + 4xy - (-21xy)$
9. $-8m^2n^2 + 7\ m^2n^2 - 15m^2n^2$
10. $-b^2c^3 + (-b^2c^3) - (-b^2c^3)$
11. $15m^2n^3 - 12m^2n + 8m^2n$
12. $a^2b^4 + 2a^2b^4 - 9a^2b^4$
13. $-18xyz + (-5xyz) - (-12xyz)$
14. $11ab - 6ab - 15ab$
15. $-21x^4 + 17x^4 - 12x^4$

V. Synthesis:

1. How did you add and subtract the given monomials?

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

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LEARNING ACTIVITY SHEET

Learning Area:	Mathematics	**Quarter:**	1
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Lesson Title/ Topic:	Addition and subtraction of monomials, binomials and multinomials		
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I. Activity No. 5: Perfect Match (8 minutes)

II. Objective(s): At the end of the activity, you should be able to add and subtract binomials.

III. Materials Needed: pen and activity sheet

IV. Instructions: Find the sum or difference of the given binomials in Column A and it with its corresponding answer in Column B. Write the letter before each number.

Column A	**Column B**
_____ 1. (5a – 7b) – (2a – 5b)	A. 2a + 11b
_____ 2. (5a – 7b) + (2a – 5b)	B. a – 12b
_____ 3. (–9a + 3b) – (–11a – 8b)	C. 7a – 4b
_____ 4. (–9a + 3b) + (–11a – 8b)	D. 7a – 12b
_____ 5. (–3a – 8b) – (4a – 4b)	E. –3a – 6b
_____ 6. (–3a – 8b) + (4a – 4b)	F. 3a – 2b
_____ 7. (a – 5b) – (6a – 2b) + (2a – 3b)	G. 3a + 6b
_____ 8. (a + 5b) + (–6a+2b) – (–2a – 3b)	H. –20a – 5b
_____ 9. (a – 5b) + (–6a–2b) – (–2a – 3b)	I. –3a + 4b
_____ 10. (a – 5b) + (6a – 2b) – (2a – 3b)	J. 5a – 4b
	K. –3a – 4b

V. Synthesis:

1. How did you add and subtract the given binomials?

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

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Learning Area:	Mathematics	**Quarter:**	1
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Lesson Title/ Topic:	Addition and subtraction of monomials, binomials and multinomials		
Name:		**Grade & Section:**	

I. **Activity No. 6:** Passage to Encourage (8 minutes)

II. **Objective(s):** At the end of the activity, you should be able to add and subtract monomials.

III. **Materials Needed:** pen and activity sheet

IV. **Instructions:** Find the sum or the difference of the multinomials in Box 1. Then write the letter on the blank for the multinomial that corresponds to your answer in Box 2 to decode the famous person who said the mentioned inspiring quote.

"Keep away from people who try to belittle your ambitions. Small people always do that, but real great people make you feel that you too can become great."

Box 1

R $(-5y^2 + 11y) + (8y^2 - 13y)$	I $(10 + 11y) - (9 - 8y)$	A $(-3a^3b^2c - 3ab - 5) + (4a^3b^2c - 7ab - 18)$
W $(-3a^3b^2c - 3ab - 5) - (4a^3b^2c - 7ab - 18)$	N $(10 + 11y) + (9 - 8y)$	M $(-5y^2 + 11y) - (8y^2 - 13y)$
K $(4a - 16) + (-9a - 4)$	A $(4a - 16) - (-9a - 4)$	T $(-6b^2c + 12bc + 5) + (-3b^2c + 7bc -$

Box 2

____ $-13y^2 + 24y$	____ $13a - 12$	____ $3y^2 - 2y$	____ $-5a - 20$

____ $-9b^2c + 19bc + 1$	____ $-7a^3b^2c + 4ab + 13$	____ $a^3b^2c - 10ab - 23$	____ $1 + 18y$	____ $19 + 3y$

V. Synthesis:

1. How did you add and subtract the given multinomials?

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

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