

7

# Learning Activity Sheet for Mathematics

Quarter 4

Lesson

2

**Worksheet for Mathematics Grade 7**  
**Quarter 4: Lesson 2 (Week 2)**  
**SY 2024-2025**

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**LEARNING ACTIVITY SHEET**

<b>Learning Area:</b>	Mathematics	<b>Quarter:</b>	4
<b>Lesson No.:</b>	2	<b>Date:</b>	
<b>Lesson Title/ Topic:</b>	Evaluating Algebraic Expressions and its Applications		
<b>Name:</b>		<b>Grade &amp; Section:</b>	

**I. Activity No. 7: Twist and Evaluate! (1 session)****II. Objective(s):**

1. To practice evaluating algebraic expressions using given values for the variables.
2. To enhance mathematical problem-solving skills through hands-on activities.

**III. Materials Needed:**

- printed copies of the activity worksheet for each student
- pencils or pens

**IV. Instructions:**

1. Spin the spinner or draw a card to determine the value of the variable.
2. Use the given value to evaluate the algebraic expression.
3. Write down your answer.
4. Repeat for each algebraic expression.
5. Have fun twisting and evaluating!

Spinner Results:  $x = 3$

- |                    |               |
|--------------------|---------------|
| 1. $2x + 5$        | Answer: _____ |
| 2. $3x - 2$        | Answer: _____ |
| 3. $4x^2 + 2x - 3$ | Answer: _____ |
| 4. $5x + 10$       | Answer: _____ |
| 5. $7x^2 + 3x + 7$ | Answer: _____ |

Spinner Results:  $x = 6$

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|---------------------|---------------|
| 1. $3x - 4$         | Answer: _____ |
| 2. $12x^2 + 5x + 1$ | Answer: _____ |
| 3. $4x + 3$         | Answer: _____ |
| 4. $x^2 - 2x + 5$   | Answer: _____ |
| 5. $6x + 8$         | Answer: _____ |

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

How did you find the activity? Did you enjoy it? Why or why not?

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**I. Activity No. 8:** Algebraic Expression Adventure (1 session)

**II. Objective(s):**

1. To practice evaluating algebraic expressions using given values for the variables.
2. To enhance mathematical problem-solving skills through hands-on activities.

**III. Materials Needed:**

- printed copies of the activity worksheet for each student
- pencils or pens

**IV. Instructions:**

I. Imagine yourself as an algebraic adventurer, ready to tackle mathematical challenges! Complete each algebraic expression by substituting the given values for the variables.

1. Evaluate the expression  $2x + 3$  when  $x = 4$ .
2. Find the value of the expression  $25y - 2$  when  $y = 6$ .
3. Determine the result of the expression  $3z^2 + 2z - 1$  when  $z = 2$ .
4. Evaluate the expression  $3a + 2$  when  $a = 5$ .
5. Calculate the value of the expression  $4b + 7$  when  $b = 2$ .

II. Word Problems: Solve the word problems using your newfound algebraic skills.

6. A cleaning service charges a fixed fee of Php 1500 for a one-time cleaning session, plus Php 200 per hour for additional cleaning time. If the cleaning session lasts for 4 hours, what will the total cost be?
7. A taxi company charges Php 50 as a base fare for a ride, plus Php 10 for every kilometer traveled. If the ride covers a distance of 8 kilometers, what will be the total fare?
8. A fitness trainer charges Php 300 per session for personal training sessions, plus an additional Php 50 for the use of equipment. What will be the total cost if a client schedules 3 sessions and uses equipment for 2 of them?
9. A movie theater charges Php 250 for a movie ticket and an additional Php 50 for a large popcorn. What will be the total cost if a person buys 2 tickets and 1 large popcorn?
10. A music streaming service charges a monthly subscription fee of Php 150 and an additional Php 50 for a family plan upgrade. If someone subscribes to the family plan for 3 months, how much will be the total cost?

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

How do these mathematical concepts apply to real-life situations? Provide examples to illustrate your understanding.

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