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DepED
DEPARTMENT OF EDUCATION

Learning Activity Sheet for Mathematics

Quarter 4

Lesson

5

Worksheet for Mathematics Grade 7
Quarter 4: Lesson 5 (Week 5)
SY 2024-2025

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LEARNING ACTIVITY SHEET

Learning Area:	Mathematics	**Quarter:**	4
Lesson No.:	3	**Date:**	
Lesson Title/ Topic:	Solving Literal Equations		
Name:		**Grade & Section:**	

I. **Activity No. 1:** Find My Match (4 minutes)

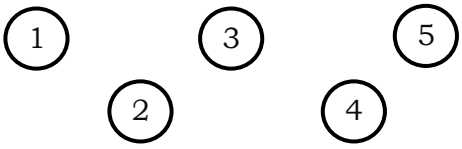
II. **Objective(s):** At the end of the activity, you should be able to recall how to solve linear equations.

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

IV. **Instruction:** Fill in each circle to make each given equation correct. Use the numbers at the right.

1. $2a + 4 = 10$

   $a = \bigcirc$



2. $3x + 5 = x + 15$

   $x = \bigcirc$

3. $7a - \bigcirc = 6$

   $a = 1$

4. $3x - \bigcirc = \bigcirc$

   $x = 2$

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I. Activity No. 2: Math Riddle (7 minutes)

II. Objective(s): At the end of the activity, you should be able to recall how to solve linear equations.

III. Materials Needed: pen and activity sheet

IV. Instruction: Solve for the value of x, then match the equation in Column A with the correct answer in Column B. Use your answers to break the code.

____	____	____	____	____	____	____	____	____
4	-3	2	-11	3	-1	5	-2	5

Column A	**Column B**
1. 4(x-2) =12	A. x = -3
2. -4 = 5x + 6	F. x = 5
3. -3x + 8 = 2 (x-1)	H. x = 11
4. 2x – 4 = 3(x-1)	I. x = 3
5. 2 – 3x = -7	M. x = 4
6. -17 = 7 + 8x	N. x = -5
7. $\frac{x-3}{7} = -2$	S. x = -1
8. $\frac{2x-5}{3} = 1$	T. x = 2
9. $3 - \frac{x}{5} = 2$	U. x = -2

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Learning Area:	Mathematics	**Quarter:**	4
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Name:		**Grade & Section:**	

I. Activity No. 3: Who Found It? (10 minute)

II. Objective(s): At the end of the activity, you should be able to solve one variable in terms of the other variables.

III. Materials Needed: pen and activity sheet

IV. Instruction: Solve the word problem.

Gavin has a Math class in the fourth period. Before he arrived in his Math class after recess, he found out that his Math project was missing. Help Gavin by pretending you are an investigator who will help him find his Math project. Solve for x in the literal equations. Then mark an "X" on the correct answers to verify who got his project, where did he left it, and what time he lost it.

1. $z = mx + y$
2. $x - m = n + p$
3. $xm = n + p$
4. $xm = \frac{p}{n}$
5. $xy = wv$
6. $u = v - w + x$
7. $cx + d = b$
8. $p = mn - x$

Who?	Where	When?
☐ Tom $x = \frac{np}{m}$	☐ Canteen $x = u - v - w$	☐ First Period $x = mn + p$
☐ Joy $x = \frac{z-y}{m}$	☐ Gym $x = \frac{b-d}{c}$	☐ Second Period $x = m + n + p$
☐ Alex $x = \frac{b+d}{c}$	☐ Library $x = \frac{wv}{y}$	☐ Third Period $x = c - bd$

V. Synthesis:

1. How did you solve for x given the literal equations?

   _____

   _____

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

   _____

   _____

LEARNING ACTIVITY SHEET

Learning Area:	Mathematics	**Quarter:**	4
Lesson No.:	3	**Date:**	
Lesson Title/ Topic:	Solving Problems Involving Literal Equation		
Name:		**Grade & Section:**	

I. **Activity No. 4:** Let's Solve! (10 minutes)

II. **Objective(s):** At the end of the activity, you should be to solve problems involving literal equations.

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

IV. **Instruction:** Solve the following problems.

1. Find the diameter of a coin if the circumference is 22 centimeters. (Use $\pi = 3.14$)

2. The perimeter of a square picture frame is 44 cm. Find the length of a side of the picture frame.

3. The perimeter of a rectangular swimming pool is 56 meters. Its length is 12 meters. Find the width of the swimming pool.

4. Two sides of a triangle have lengths of 5 dm and 8dm. The perimeter is 20 dm. Find the length of the third side of the triangle.

5. The area of a rectangular lot is 63 square meters. The width of the lot measures 7 meters. Find its length.

Degree Fahrenheit is $^0F = {}^0C\left(\frac{9}{5}\right) + 32$.

6. Convert ^0F to ^0C.

7. If $^0F = 98.6$, what is its equivalent temperature in degree Celsius?

8. If a human has a temperature of 98.6 ^0F, does he/she have a fever? Why?

V. Synthesis:

1. How did you solve the problems involving literal equations?

_____

_____

_____

_____

_____

2. What are the properties of equality that you applied in solving problems involving literal equations?

_____

_____

_____

_____

_____

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

_____

_____

_____

_____

_____

LEARNING ACTIVITY SHEET

Learning Area:	Mathematics	**Quarter:**	4
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Lesson Title/ Topic:	Solving Literal Equations		
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I. Activity No. 5: Equation Analysis Test (Homework)

II. Objective(s): At the end of the activity, you should be able to solve equations in a fun way and exercise your fluency with words by completing the word problems based on clues.

III. Materials Needed: pen and activity sheet

IV. Instruction: Solve the following equations by using the initials to find the missing words.

Example: 7 = W of W Answer: Wonders of the World

1. 26 = L of A _____
2. 12 = S of the Z _____
3. 52 = D of C _____
4. 9 = P of SS _____
5. 4 = Q in a G _____
6. 12 = M in a Y _____
7. 3 = S of PF _____
8. 88 = PK _____
9. 24 = H in a D _____
10. 365 = D in a Y _____

V. Synthesis

1. How did you solve the missing words?

_____

_____

_____

_____

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

_____

_____

_____

_____