

Learning Activity Sheet for Mathematics

Quarter 2
Lesson

Worksheet for Mathematics Grade 7 Quarter 2: Lesson 8 (Week 8) SY 2024-2025

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Learning Area:	Mathematics	Quarter: 2	
Lesson No.:	8	Date:	
Lesson Title/ Topic:	Subsets of Real Numbers		
Name:		Grade & Section:	

- I. Activity No. 1: Identify Me! (15 minutes)
- II. Objectives:
 - Recall union and intersection of sets.
 - Describe a set of numbers and identify its real-life applications.
- III. Materials Needed: Paper and pen
- **IV. Instructions:** Find the union or intersection in the following sets.

$$A = \{1, 2, 3\}$$

$$B = \{0\}$$

$$C = \{-3, -2, -1\}$$

$$D = \left\{\frac{1}{2}, \frac{2}{3}, \frac{4}{5}, \frac{3}{2}\right\}$$

$$E = \{0, 1, 2, 3\}$$

$$F = \{0.5, 0.66..., 0.8, 1.5\}$$

$$G = \{\sqrt{2}, \sqrt{3}, \sqrt{5}\}$$

$$H = \left\{-3, -2.5, -1, 0, \frac{1}{2}, 2, 3\right\}$$

$$1. A \cup B = \underline{\hspace{1cm}}$$

$$2.\ A \cup B \cup C = \underline{\hspace{1cm}}$$

$$3. B \cap E = \underline{\hspace{1cm}}$$

$$4. D \cup F = \underline{\hspace{1cm}}$$

- A. Answer the following questions:
 - 1. What are the common characteristics of the numbers in each of the following sets?

1.1 Set A

Answer: The numbers in Set A are _____

1.2 Set C

Answer: The numbers in Set C are

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	1.3 Set D
	Answer: The numbers in Set D are
	1.4 Set E
	Answer: The numbers in Set E are
2.	Can you cite specific uses of these numbers in real life? Give at least one (1).
	Answers:
	Set A:
	Set C:
	Set D:
	Set E:

Learning Area:	Mathematics	Quarter: 2	
Lesson No.:	8	Date:	
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Name:		Grade & Section:	

- I. Activity No. 2: Match Me! (15 minutes)
- **II. Objective:** Illustrate real-life applications of real numbers.
- III. Materials Needed: Paper and Pen
- IV. Instructions: Match the following situations with their corresponding numerical values.

Set A	Set B
1. Gain of 10 kilos	a4
2. 5 feet below sea level	b. π
3. The constant ratio between circumference and diameter of a circle.	c. +10
4. A share for pizza when divided equally among four children.	e. $\frac{1}{4}$
5. A temperature $4^{\circ}C$ below $0^{\circ}C$.	f. 0.75
6. About $\frac{3}{4}$ of Earth surface is water-covered	

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I. Activity No. 3: Where Do I Belong. (10 minutes)

II. Objective: Determine the different subsets of real numbers.

III. Materials Needed: Paper and pen

IV. Instructions: Identify to which the following numbers belong by putting a check mark in the corresponding cell. (*Hint: There are numbers that belong to more than one subset.*)

Number	Natural/Counting	Whole	Integer	Rational	Irrational
1. 6					
2. 23.15					
33					
4. 0					
$5.\frac{2}{3}$					
6. √81					
$7.\sqrt{13}$					
$8\sqrt{36}$					
9. 3√3					
10. 2.151515					

Learning Area:	Mathematics	Quarter:	2
Lesson No.:	8	Date:	
Lesson Title/ Topic:	Union and Intersection of Subsets of Real Numbers		
Name:		Grade & S	Section:

- I. Activity No. 4: Knowledge Check (10 minutes)
- **II. Objective:** Determine the union or intersection of subsets of real numbers.
- III. Materials Needed: Paper and pen
- **IV. Instructions:** The set N, W, Z, Q, Q', and R are the numbers defined in the lesson. Determine which one of these sets is equal to the given set.

1.
$$Z \cup Q =$$

$$2. \ Z \cap Q = \underline{\hspace{1cm}}$$

3.
$$N \cap Q' =$$

4.
$$Q' \cup R = _____$$

5.
$$W \cap N = ____$$

6.
$$W \cup Z = ____$$

Learning Area:	Mathematics	Quarter:	2	
Lesson No.:	8	Date:		
Lesson Title/ Topic:	Ordering Numbers			
Name:		Grade & Section:		

- I. Activity No. 5: Compare and Arrange Me! (10 minutes)
- II. Objective:
 - 1. Compare two real numbers.
 - 2. Arrange a set of real numbers in ascending or descending order.
- III. Materials Needed: Paper and pen
- IV. Instructions: Do the following.
 - 1. Tell if the following is true or false. Write your answer in the space provided.

____ a.
$$-2.3 > -5$$

_____ b.
$$\frac{13}{5}$$
 < 1.5

____ c.
$$0 < \frac{2}{3}$$

____ d.
$$\sqrt{5} > 1.5$$

_____ e.
$$\pi > \frac{22}{7}$$

2. Arrange the given numbers in (a) ascending and (b) descending orders.

$$5, 0, -3, 3.25, \sqrt{5}, \frac{2}{3}, \pi, -5.2$$

Answers:

- a. Ascending order: _____
- b. Descending order: _____