



Republic of the Philippines **Department of Education** Regional Office IX, Zamboanga Peninsula







# Mathematics

Quarter 3 - Module 8 Finding Missing Value in a Number Sentence



Name of Learner: Grade & Section: Name of School:



In the previous module you learned about determining the missing term in a pattern. In this module, you will learn how to find the missing value in a number sentence involving multiplication or division of whole numbers.

At the end of this module, you are able to:

1. Finds the missing value in a number sentence involving multiplication or division of whole numbers.



### What I Know

**Directions**: Select and write the letter of the correct answer on the space given.

For numbers1-5, use the word problem inside the box.

There are 18 baskets of roses. Each basket has 12 roses. How many roses in all?

1. What are <b>given</b> i	in the prob	lem?			
A. 12 roses					
B. basket and	roses				
C. 18 baskets c	of roses				
D. 18 baskets c	of roses and	12 roses	5		
2. What operation	will you use	÷Ś			
A. division	B. multipli	cation	C. subtra	action	D. addition
3. Which of the follo	owing is the	e correct	number s	entenc	<b>e</b> of
the problem?					
A. 18 x 12 = n		B.18÷ı	n = 12		
B. n x 18 = 12		D. n ÷ 1	2 = 18		
4. What is <b>n</b> in the	equation (	of word p	oroblem g	jiven?	
A. 212	B.216	С	. 261	D.	262
5. How did you ge	et the answ	ver?			
A. I divide 12 in	ito 18	C. Imu	ultiply 18 to	o 12	
B. I multiply 12	to 216	D. I div	vide 18 int	o 12	



### What's In

**Activity 1:** Fill Me Up **Directions**: Give the missing numbers in the pattern.

- 1. 2, 7, \_\_\_\_, 17, 22, \_\_\_\_, 32.
- 2. 2, 4, \_\_\_\_, 8, 10, \_\_\_\_.
- 3. 4, 8, \_\_\_\_, 16, \_\_\_\_, 24.
- 4. 3, 6, \_\_\_\_, 12, \_\_\_\_ 18.
- 5. 5, \_\_\_\_, 15, \_\_\_, 25, 30.



### What's New

Activity 2: Making List

**Directions**: Look at the illustration. List the materials they needed in an art class. Write the names of materials in the corresponding names in the table below.



Materials needed :			
Paul	Sam	James	

Guide Questions:

- 1. How many boys are there?
- 2. How many materials do they need each on their art?
- 3. How many materials do they need in all?
- 4. How do we get the answer?



Based on the illustration given, you are asked:

- How many boys are there? (There are 3 boys.)
- 2. How many materials do they need each on their art? (There are 4 materials needed.)
- 3. How many materials do they need in all? (There are 12 materials needed.)
- 4. How can we get the answer?(To find how many materials, we can count, add or multiply)

To find the total number of materials that were needed,

3	X	4	=	= 12
boys	materials	needeo	d by each bo	by materials in all
So, the boys needed 12 materials. How many materials do each boy need? Divide to find how many materials each boy needed.				
12	÷	3	= 4	
materials in	n all	boys	materials	needed by each boy

So, each boy needs 4 materials.

How are multiplication and division related?

Here are the examples, use the picture to solve.

We will use **n** for the missing number, which **n** represent a specific number that is needed to make the multiplication and division true.



What have you notice of the illustration shown?

#### Answer: That the multiplication and division are

#### opposite/inverse operation.

Since the division is the opposite of multiplication, a multiplication

fact can help you find the quotient.

Try these another equation.

Find the missing number in a number sentence.

 5 x n = 70
 Solution: 70 ÷ 5 = 14

 So, substitute 14 to n

 5 x 14 = 70

Let's try another one, make the equation correct.

So we have to find the n. So multiply  $8 \times 3 = 24$ 

And think of a number to be multiply by 6 to get the product of 24. By using the multiplication fact the number to be multiplied by 6 to get the product of 24 is **4**. So **4** is the missing number.

> $8 \times 3 = 6 \times 4$ 24 = 24

What does it show? It shows EQUALITY which is a relationship between two auantities that have the same value.

# What's More

#### Activity 3: Write and Solve Me

**A. Directions**: Write the number sentence and solve.

1. The 20 pupils in Ms. Cainglet's class work in groups of 4 . How many groups of 4 are in Ms. Cainglet's class?



\_ \_\_\_\_ = \_\_\_\_\_

2. Harry puts 3 hearts in each circle. How many circles does he need for 21 hearts.



Number sentence:



### What I Have Learned

Activity 4: Match Me

**Directions**: Find the value of n. Match column A to column B. Write the letter of your answer on the space provided.

Column A	Column B		
<u>1.</u> $5 \times 3 = \mathbf{n} \div 3$	A. 45		
2. 120 ÷ 10 = <b>n</b> × 6	B. 108		
3. 18 × 6 = <b>n</b>	C. 16		
4. <b>n</b> x 7 = 1 x 28	D. 2		
5. 5 x <b>n</b> = 80	E. 4		

#### IMPORTANT THINGS TO REMEMBER:

How can you find the missing value in a number sentence involving multiplication and division?

- Analyze the number sentence and find what term in the multiplication sentence or division sentence is/are missing.
- Multiplication and division are opposite/inverse operations.
- Knowing multiplication facts can help you find the missing division facts and vice versa.
- You can use division to check multiplication and multiplication to check division.



## What I Can Do

#### Activity 5: "Finding Numero"

**Directions**: Find the missing number of the following number sentence from the bubbles. Write the number on the blank.





### Assessment

Multiple Choice:

**Directions**: Choose the letter of the correct answer. Write your answer on the space provided.

1.	Look at the equation	on.			
	Given: 10 x n =	40	Solution:	40 ÷ 10 = 4	
	What is the value	of n? B 4	C. 10	D 40	
		5.	0110	2110	

<ul> <li>2. What statement can you tell about the equation above?</li> <li>A. To find n, multiply 10 to 40.</li> <li>B. To find n, multiply 10 to 4.</li> <li>C. To find n, divide 40 by 4.</li> <li>D. To find n, divide 40 by 10.</li> <li>3. How do you interpret the relationship on the above equation?</li> <li>A. Multiplication and division are of different operation.</li> <li>B. Multiplication and division are the same operation.</li> <li>C. Multiplication and division are inverse operation.</li> <li>D. Multiplication and division has no relationship.</li> <li>4. What is the missing number of the number sentence 9 x n = 36</li> <li>A. 3 B. 4 C. 5 D. 6</li> </ul>			
5. Which of the following equation shows the relationship of equality A. $5 \times 2 = 3 \times 5$ C. $8 \times 4 = 5 \times 8$ B $8 \times 2 = 4 \times 4$ D $7 \times 3 = 4 \times 4$			
References:		Development Team	
<b>Books:</b> Chingcuangco, Ofelia G., Henry P.	Writer:	Mirasol s. Cainglet	
Contemplacion, Eleonorr I. Flores, Laura N. Gonzaga, Carolina O Guevarra, Gerlie M. Ilagan, Marites S. Patacsil,Maria Corazon C. Silvestre, Remylinda T. Soriano, Victoria C. & Dominador J	Editors/QA:	Crislyn M. Makasiar Romar P. Navarro Jennifer F. Gadian Lea M. Indayo	
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