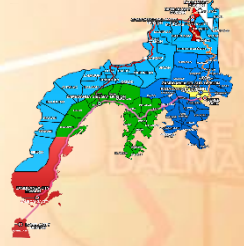




Republic of the Philippines  
**Department of Education**  
 Regional Office IX, Zamboanga Peninsula



Zest for Progress  
 Zeal of Partnership



# Mathematics

Quarter 3 - Module 7

## Missing Term/s In A Pattern



Name of Learner: \_\_\_\_\_

Grade & Section: \_\_\_\_\_

Name of School: \_\_\_\_\_

- JANUARY  
*Matuguhon*
- FEBRUARY  
*Mahigugmaon*
- MARCH  
*Matinabungen*
- APRIL  
*Matinahuron*
- MAY  
*Makapsay og Malimpyo*
- JUNE  
*Maablik og Masunod sa  
Dhaklong Oras*
- JULY  
*Maantigo og Maabilidad*
- AUGUST  
*Maginhuhunon  
para sa Uban*
- SEPTEMBER  
*Madaginaton*
- OCTOBER  
*Matinud-anon*
- NOVEMBER  
*Masaligan*
- DECEMBER  
*Maalampon*



# What I Need to Know

In your past lesson you've learned how to complete a symmetric figure. You drew the other half of the object or shape to make it a symmetrical figure.

There are patterns in things and objects around you. The activities and works we do every day follow a pattern. The way you arrange your clothes in a cabinet follows a pattern. The style of the windows in your house, the flowers in the pots and the arrangement of your toys in your divider follow a pattern. Our growth observes a pattern. Even the bodies of animals, the leaves and branches of trees have their patterns.

Determining the missing term in a pattern is the same as going in a scouting. Both need special abilities like patience, courage, intelligence and more to solve the given tasks. In finding the missing term in a pattern you all need these to have a smooth and enjoyable journey toward the lesson.

This lesson will give you fun and exciting activities that you can apply in your daily lives.

The module contains only one lesson:

- Lesson 7: Determining the Missing Term/s in a Given Combination of Continuous and Repeating Pattern.

e.g. 4A, 5B, 6A, 7B, \_\_\_

□ ② □ ④ \_\_\_

After going through this module, you are expected to:

- Determine the missing term/s in a given combination of continuous and repeating pattern.

e.g. 4A, 5B, 6A, 7B, \_\_\_

□ ② □ ④ \_\_\_



# What I Know

**Directions:** Write the chosen letter of the correct answers on the space before the number.

\_\_\_\_ 1. What are the missing terms in the pattern {2, 4, 6, \_\_\_\_, 10, 12, \_\_\_\_}?

- A. 8 and 13    B. 8 and 14    C. 8 and 15    D. 8 and 16

\_\_\_\_ 2. Find the missing term in the pattern  $\boxed{60}, \textcircled{55}, \underline{\quad}, \textcircled{45}, \boxed{40}, \textcircled{35}$ .

- A.  $\boxed{50}$     B.  $\boxed{52}$     C.  $\boxed{53}$     D.  $\boxed{54}$

\_\_\_\_ 3. **Maria arranged the numbers and letters in this way {1Z, 2Y, 3X, \_\_\_\_, \_\_\_\_, 6U}. What should be put on the blanks?**

- A. 8V and 7W    C. 7V and 6W  
B. 5V and 4W    D. 4V and 3W

\_\_\_\_ 4. **The teacher decorates the cut objects in the wall. She makes it like this**



**What are the missing objects on her wall?**

- A.    B.   
C.    D.

\_\_\_\_ 5. **Aizel had 5 flower pots. She placed 8 flowers to the first pot, 16 flowers to the second pot, 24 flowers to the third pot. How many flowers was she going to place in her fourth and fifth pots?**

- A. 26 and 35    B. 28 and 37  
C. 30 and 35    D. 32 and 40



# What's In

## Activity 1: Make Me Beautiful

**Directions:** Study and look at the pattern in Column A. Color the object in Column B to complete the given pattern.

Column A	Column B								
1.									
3.									
4. <table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td>48</td> <td></td> <td>56</td> <td>60</td> <td>64</td> <td>68</td> </tr> </table>	48		56	60	64	68	<table border="1" style="display: inline-table; vertical-align: middle;"> <tr> <td>52</td> <td>54</td> </tr> </table>	52	54
48		56	60	64	68				
52	54								
5.									



# What's New

## Activity 2: Come, Let's Talk

**Directions:** Answer the given questions.

Mydelle is playing shapes in her house. She is arranging the shapes like this.



1. What shape will Mydelle place in the blank? Why?

Answer: \_\_\_\_\_

Jason has 75 one peso coins in his pocket. He arranges it in an increasing order. Php5.00, Php10.00, Php15.00, \_\_\_\_\_, \_\_\_\_\_.

2. How much coins does he place in the fourth space?

Answer: \_\_\_\_\_

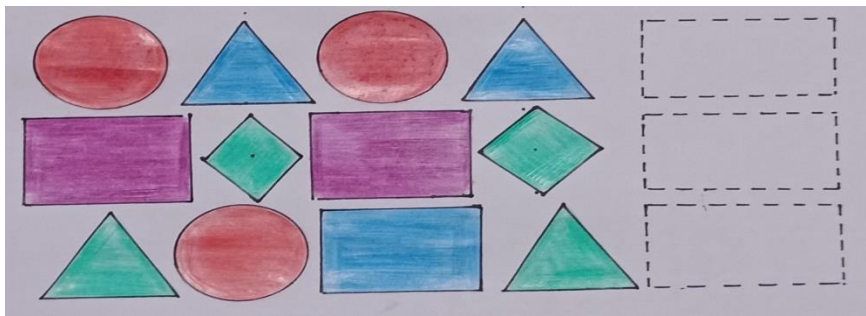


# What is it

## Determining The Missing Term/s In A Pattern

We can identify the missing term/s in a given pattern of **shapes**, **figures**, or **numbers** by:

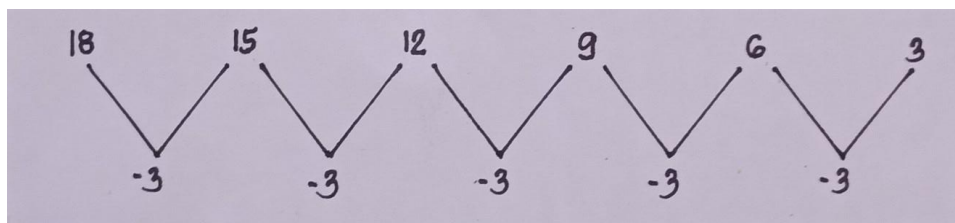
- Looking how the figures or shapes are arranged and identify which shape/s or object/s repeat over and over.
- Identifying the order of the repeated figures.



Illustrated by: Jenie C. Yu

We can find the missing number/s in a given pattern or sequence by:

- Determining if the numbers are arranged in increasing or decreasing order;
- Exploring the relationship between the numbers by finding the difference between numbers that are next to each other; and by
- Using the difference between numbers to find the missing number.



Illustrated by: Jenie C. Yu





# What's More

## Activity 3: What is It?

**Directions:** Write or draw the missing in the pattern.

1.  $+$   $\times$   $\div$   $=$   $+$   $\times$  \_\_\_\_\_  $+$

2. 

3. \_\_\_\_\_, 75, 70, 65, 60, \_\_\_\_\_



# What I Have Learned

## Activity 4: Choose Me Please!

**Directions:** Choose the missing term/s inside the box. Write it on the blank.

82	16	25	24
54	72	27	63
90	52	18	74

- \_\_\_\_\_, 19, 22, \_\_\_\_\_, 28, 31, 34
- 36, 33, 30, \_\_\_\_\_, \_\_\_\_\_, 21, 18
- 36, 45, \_\_\_\_\_, \_\_\_\_\_, 72, 81, \_\_\_\_\_
- \_\_\_\_\_, 67, 62, 57, \_\_\_\_\_, 47
- 100, 94, 89, 85, \_\_\_\_\_, 80



# What I Can Do

## Activity 5.1: Think of Me

**Directions:** Read and answer the problem. Write your answers on the space provided for each item.

Joan received Php 5.00 on Monday, Php 8.00 on Tuesday, Php 11.00 on Wednesday, and Php 14.00 on Thursday.

1. How much did she receive on Friday?

2. In Saturday?

3. And in Sunday?

4. Write your solution inside the box.

5. How much money did she receive in a week?



## Assessment

**Directions:** Write the letter of the correct answer on the space before the number.

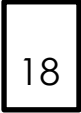



\_\_\_\_\_ 1. Find the missing terms in the pattern

**{ 525, 500, \_\_\_\_, \_\_\_\_, \_\_\_\_, 400, 375 }?**

- A. 425, 415 and 410
- B. 450, 445 and 435
- C. 475, 450 and 425
- D. 475, 455 and 425

\_\_\_\_\_ 2. What is missing in the pattern?

2   4   6   8   10   12   14   16   \_\_\_\_\_

A.       B.       C.       D. 

\_\_\_\_\_ 3. What are the missing terms in the pattern

**{ A, B, D, E, G, \_\_\_\_, \_\_\_\_, K, M }?**

- A. H and I
- B. I and J
- C. H and J
- D. I and L

\_\_\_\_\_ 4. She placed the numbers  
Inside the shapes  
What is missing in the pattern?

409

509

609

\_\_\_\_\_

809

A. 705

B. 708

C. 709

D. 710

\_\_\_\_\_ 5. John Kyle brought 120 candies. He wants to arrange it in 5 groups in increasing order. {\_\_\_\_, 16, 24,\_\_\_\_, 32, 40}. What are missing on his arrangement?

A. 6 and 30

B. 8 and 32

C. 6 and 32

D. 8 and 34

## References:

### Books

**Source:** Ofelia G. Chingcuangco, et al., *Mathematics 3 Teacher's Guide* Pasig: Rex Book Store, Inc., 2015, 274-277.

**Source:** Ofelia G. Chingcuangco, et al., *Mathematics Kagamitan ng Mag-aaral Sinugbuanong Binisaya* Pasig: Book Media Press, Inc. and Printwell, Inc., 2014, 255-258.

**Source:** Alma R. Tabilang, et al., *Mathematics 4 Learner's Material* Pasig: Lexicon Press, Inc., 2015, 167-170.

## Development Team

Writer: **Jhumar C. Yu**  
*San Jose Elementary School*

Editors/QA: **Crislyn M. Makasiar**  
**Romar P. Navarro**  
**Jennifer F. Gadian**  
**Lea M. Indayo**

Reviewer: **Gina I. Lihao**  
*EPS-Mathematics*

Illustrator:  
Layout Artist:

Management Team:

**Evelyn F. Importante**  
*OIC- CID Chief EPS*

**Dr. Aurelio A. Santisas, CESE**  
*OIC- Assistant SDS*

**Dr. Jenealyn A. Aleman, CESO VI**  
*OIC- Schools Division Superintendent*