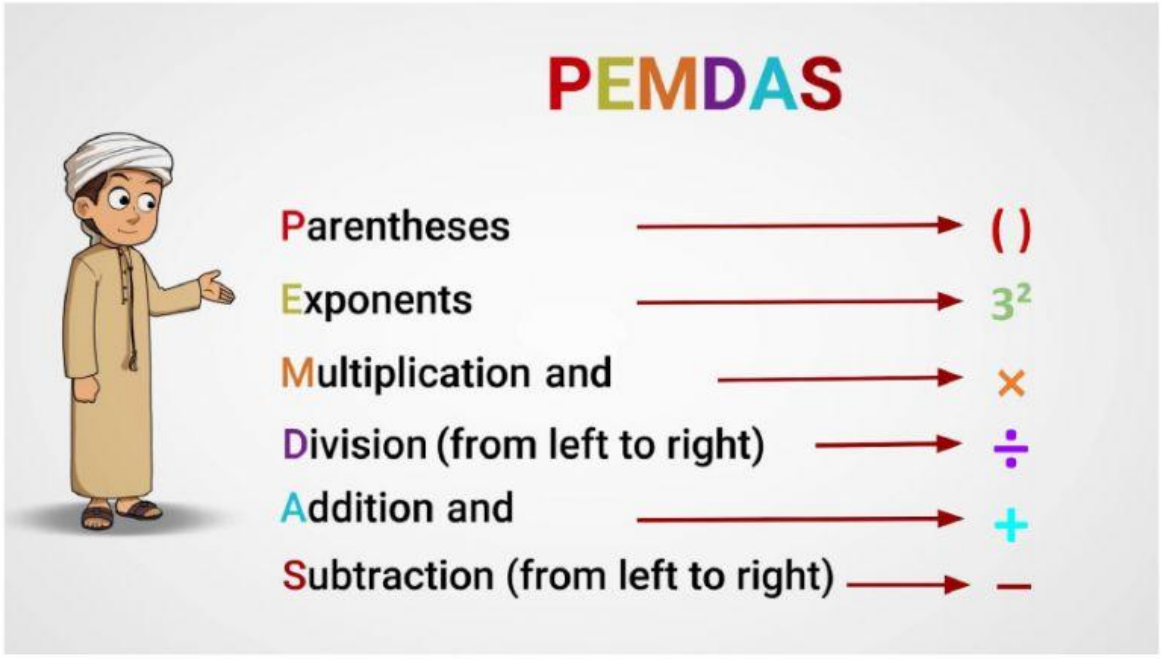
Revision Chapter-6-Expressions and Patterns

Grade - 5

Student Name -_____



Example :

Evaluate $\{5^3 \div [1 \times (10 - 5)]\} - 20$.

Write the expression.	$\{5^3 \div [1 \times (10 - 5)]\} - 20$	parentheses 1st
Subtract 5 from 10.	$\{5^3 \div [1 \times 5]\} - 20$	brackets 2nd
Multiply.	$\{5^3 \div 5\} - 20$	
Find 5^3.	$\{125 \div 5\} - 20$	braces 3rd
Divide.	$25 - 20$	
Subtract.	5	

Question 1:

Evaluate the expression $12 \times 4 + 10 \times 8$.

Write the expression. $12 \times 4 + 10 \times 8$

Multiply 12 by 4. $\_\_\_\_ + 10 \times 8$

Multiply 10 by 8. $\_\_\_\_ + \_\_\_\_$

Add. $\_\_\_\_$

Question 2:

Evaluate $20 - \{4 + [4 + (10 \div 2)]\}$.

Write the expression. $\_\_\_\_ - \{4 + [\_\_\_\_ + (10 \div \_\_\_\_)]\}$

Divide 10 by 2. $20 - \{4 + [4 + \_\_\_\_]\}$ parentheses 1st

Add. $20 - \{4 + \_\_\_\_\}$ brackets 2nd

Add. $20 - \_\_\_\_$ braces 3rd

Subtract. $\_\_\_\_$

Question 3:

Evaluate $[28 + [(2 \times 4^2) \div 8]]$.

Write the expression. $[\_\_\_\_ + [(2 \times 4^2) \div \_\_\_\_]]$

Find 4^2. $[28 + [(2 \times \_\_\_\_) \div 8]]$

Multiply. $[28 + [\_\_\_\_ \div 8]]$ parentheses 1st

Divide. $[28 + \_\_\_\_]$ brackets 2nd

Add. $\_\_\_\_$ braces 3rd

Question 4:

Evaluate $64 \div [4 \times (27 - 5^2)]$.

Write the expression. $\_\_\_\_ \div [4 \times (\_\_\_\_ - 5^2)]$

Find 5^2. $64 \div [4 \times (27 - \_\_\_\_)]$ parentheses 1st

Subtract. $64 \div [4 \times \_\_\_\_]$ brackets 2nd

Multiply. $64 \div \_\_\_\_$

Divide. $\_\_\_\_$

Question 5:

Write each phrase as a numerical expression.

divide 15 by 3, then add 13 _____

subtract 4 from 20, then divide by 2 _____

add 9 and 4, then multiply by 2 _____

Question 6:

Humaid buys 3 containers of ice cream for AED 5 each and a cake that costs AED 8 to take to his friend's dinner party. Which expression will allow you to find how much money Humaid spent on ice cream and cake?

Ⓐ AED 8 × 3 × AED 5

Ⓑ (3 × AED 5) + AED 8

Ⓒ (3 × AED 8) + AED 5

Ⓓ 3 × (AED 5 + AED 8)

Question 7:

Evaluate the expression $15 - (x + 5)$ if $x = 8$.

_____ $- (x + 5)$ Write the expression.

$15 - ($_____ $+ 5)$ Replace x with 8.

$15 -$ _____ Add 8 and 5.

2 Subtract 13 from 15.

Question 8:

Problem Solving

To find the perimeter of a rectangle, you can use the expression $2(\ell) + 2(w)$. Find the perimeter if $\ell = 10$ centimeters, and $w = 8$ centimeters.

Solution:

Question 9:

Evaluate each expression given the value of the variables.

$6 - m + 3 - n$, when $m = 4$ and $n = 1$ _____

$2 \times z$, when $z = 8$ _____

$k \div 5$, when $k = 30$ _____

Question 10:

Algebra Identify the pattern. Then write the next three terms in each sequence.

1. 5, 10, 20, 40, ...

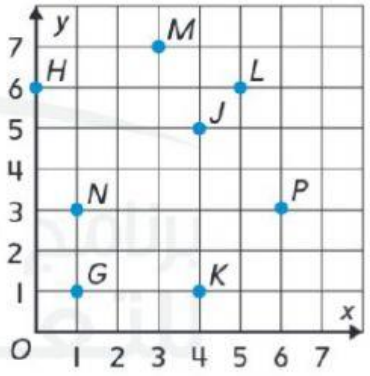
2. 63, 58, 53, 48, . . .

3. 192, 96, 48, 24, . . .

4. 4, 11, 18, 25, . . .

Question 11:

Use the graph for Exercises 1–6.
Locate and name each ordered pair.



1. M _____

2. P _____

3. J _____

Locate and name each point.

4. (1, 3) _____

5. (5, 6) _____

6. (0, 6) _____

Que 12: Complete the table below:

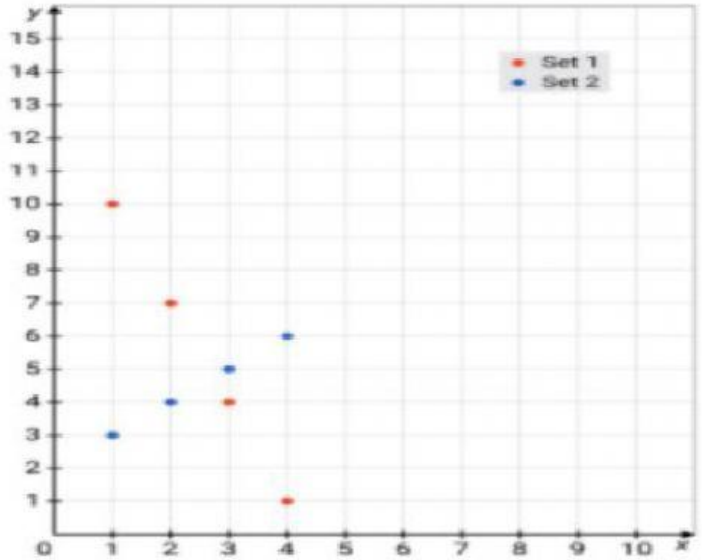
x	1	2	3	4
y	44	48	52	

Write the ordered pairs for the above table:

(1,), (2,), (3,), (4,)

Que 13: Look at the two sets of ordered pairs, **Set 1** & **Set 2**.

How do the patterns compare:



Select your answers from the drop-down menus to correctly complete the sentences.

In Set 1, as x increases, y ____

In Set 2, as x increases, y ____