


# Revision Chapter-6-Expressions and Patterns

Grade - 5

Student Name - \_\_\_\_\_



## PEMDAS

Parenteses	→	( )
Exponents	→	$3^2$
Multiplication and	→	$\times$
Division (from left to right)	→	$\div$
Addition and	→	$+$
Subtraction (from left to right)	→	$-$

### Example :

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

Write the expression.

$$\{5^3 \div [1 \times (10 - 5)]\} - 20 \quad \text{parentheses 1}^{\text{st}}$$

Subtract 5 from 10.

$$\{5^3 \div [1 \times 5]\} - 20 \quad \text{brackets 2}^{\text{nd}}$$

Multiply.

$$\{5^3 \div 5\} - 20$$

Find  $5^3$ .

$$\{125 \div 5\} - 20 \quad \text{braces 3}^{\text{rd}}$$

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.

$$\underline{\hspace{2cm}} + 10 \times 8$$

Multiply 10 by 8.

$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}}$$

Add.

$$\underline{\hspace{2cm}}$$

**Question 2:**

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

Write the expression.

$$\underline{\hspace{2cm}} - (4 + [\underline{\hspace{2cm}} + (10 \div \underline{\hspace{2cm}})])$$

Divide 10 by 2.

$$20 - [4 + [4 + \underline{\hspace{2cm}}]] \quad \text{parentheses 1<sup>st</sup>}$$

Add.

$$20 - [4 + \underline{\hspace{2cm}}] \quad \text{brackets 2<sup>nd</sup>}$$

Add.

$$20 - \underline{\hspace{2cm}} \quad \text{braces 3<sup>rd</sup>}$$

Subtract.

$$\underline{\hspace{2cm}}$$

**Question 3:**

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

Write the expression.

$$\{ \underline{\hspace{2cm}} + [(2 \times 4^2) \div \underline{\hspace{2cm}}] \}$$

Find  $4^2$ .

$$[28 + [(2 \times \underline{\hspace{2cm}}) \div 8]]$$

Multiply.

$$[28 + [ \underline{\hspace{2cm}} \div 8 ]]$$
 parentheses 1<sup>st</sup>

Divide.

$$[28 + \underline{\hspace{2cm}}]$$
 brackets 2<sup>nd</sup>

Add.

$$\underline{\hspace{2cm}}$$
 braces 3<sup>rd</sup>

**Question 4:**

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

Write the expression.

$$\underline{\hspace{2cm}} \div [4 \times (\underline{\hspace{2cm}} - 5^2)]$$

Find  $5^2$ .

$$64 \div [4 \times (27 - \underline{\hspace{2cm}})]$$
 parentheses 1<sup>st</sup>

Subtract.

$$64 \div [4 \times \underline{\hspace{2cm}}]$$
 brackets 2<sup>nd</sup>

Multiply.

$$64 \div \underline{\hspace{2cm}}$$

Divide.

$$\underline{\hspace{2cm}}$$

**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 \_\_\_\_\_

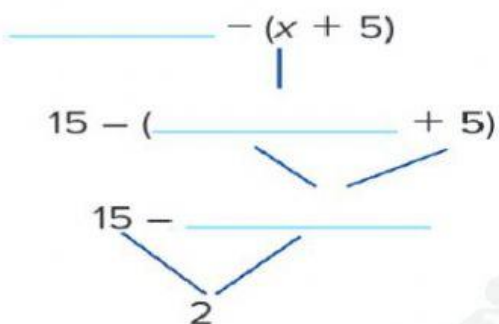
**Question 6:**

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?

- (A)  $\text{AED } 8 \times 3 \times \text{AED } 5$       (C)  $(3 \times \text{AED } 8) + \text{AED } 5$   
(B)  $(3 \times \text{AED } 5) + \text{AED } 8$       (D)  $3 \times (\text{AED } 5 + \text{AED } 8)$

**Question 7:**

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



Write the expression.

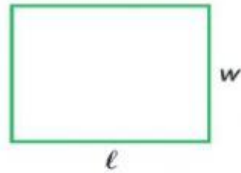
Replace x with 8.

Add 8 and 5.

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, ...

\_\_\_\_\_

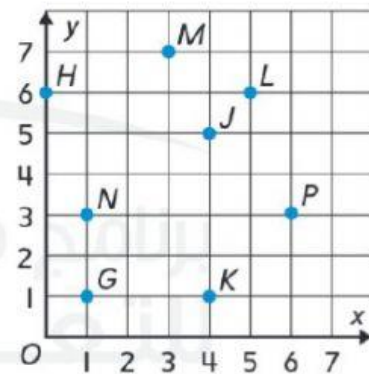
**Question 11:**

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:

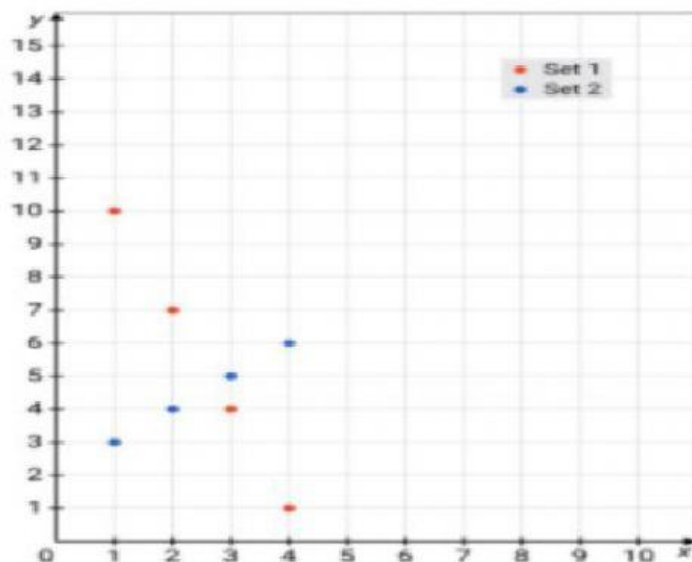
$x$	1	2	3	4
$y$	44	48	52	

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,  $y$