

<b>Name of the School:</b> <hr/>	<b>Name of the Student:</b> <hr/>
<b>Place:</b> <hr/>	<b>Roll No.:</b> <hr/>

**I. Choose the correct answer:**

$$10 \times 1 = 10$$

1. The value of  $(+6) - (-6)$  is \_\_\_\_\_.  
a) -12      b) +12      c) +1      d) 0
2.  $(-2) + (+7)$  is equal to \_\_\_\_\_.  
a) -5      b) +5      c) 9      d) -9
3. The perimeter of the rectangle is \_\_\_\_\_.  
a)  $4a$       b)  $1 \times b$       c)  $2(l+b)$       d)  $2(l \times b)$
4. the area of a parallelogram is \_\_\_\_\_.  
a)  $s \times s$       b)  $l + b$       c)  $b \times h$       d)  $\frac{1}{2}(d_1 \times d_2)$
5.  $(-25) + (-6)$  is equal to \_\_\_\_\_.  
a) -31      b) +31      c) 19      d) -19
6.  $(+49) \div (-7)$  is equal to \_\_\_\_\_.  
a) +7      b) -7      c) 0.7      d) -0.7
7. Find the product of  $(+14) \times (-16)$ .  
a) +224      b) -224      c) +30      d) -30
8. the value of  $(-9) - (+6)$  is \_\_\_\_\_.  
a) +15      b) -5      c) +17      d) -15
9. Find the area of the square of side 35cm.  
a)  $1225 \text{ cm}^2$       b)  $70 \text{ cm}^2$       c)  $-70 \text{ cm}^2$       d)  $-1225 \text{ cm}^2$
10. Find the area of the parallelogram with base 8 units and height 6 units.  
a) 46 sq. units      b) 42 sq. units      c) 48 sq. units      d) 192 sq. units

## II. Do as directed:

$$10 \times 2 = 20$$

11. A parallelogram has a base 12 meters and height 5 meters. Find its area.
12. Find the area of a rhombus whose diagonals measure 24cms and 16cm respectively.
13. The perimeter of a square is 400m. Find its area.
14. What is the area of a triangle that has a base of 4cm and a height of 10cm?
15. Evaluate the quotient for each of the following
  - a)  $(-40)$  and  $(+5)$
  - b)  $(-5)$  and  $(-5)$
  - c)  $(+99)$  and  $(-11)$
  - d)  $(+15)$  and  $(+3)$

16. Four friends are sharing a room. The bills they need to share at the end of each month is 500. How much should each person pay?

17. If  $a$  and  $b$  are 2 integers, find  $a \times b$  for the following values of  $a$  and  $b$ .

a)  $a = 110$  and  $b = -20$       b)  $a = -5$  and  $b = -5$

18. Use number line and solve the following:

a)  $(+4) - (-7)$       b)  $(-3) - (-7)$

19. Find the value of  $(+1) \times (-5)$  and  $(+35) \times (-9)$

20. Find the value of:

a)  $(-4 - 2) - (+3)$       b)  $(-10) - (+10)$

**III. Answer the following: (Any 2)**

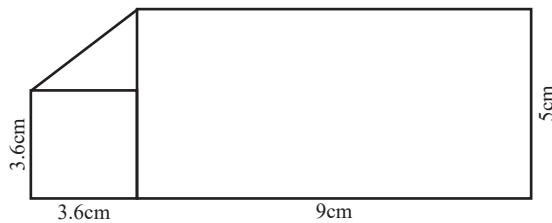
**$2 \times 5 = 10$**

21. Find the new temperature for the following cases. You can draw a number line.

a) The night temperature is  $-5^{\circ}\text{C}$ . It raises by  $15^{\circ}\text{C}$  during the day. What is the day temperature?

b) The day temperature is  $8^{\circ}\text{C}$ . By noon it is increased by  $7^{\circ}\text{C}$ . Find the temperature at noon.

22. Calculate the area of the given figure. This figure has a rectangle, a square and a right angled triangle.



[Hint: height of the triangle =  $5 - 3.6 = 1.4\text{cm}$ ]

23. If the perimeter of a rhombus is 60 meter. Find its side. If the diagonals are of measure 15cm and 20cm, find its area.

**IV. Geometry:**

**$1 \times 10 = 10$**

24. Construct a perpendicular bisector of the lines having the following length.  
 $AB = 8.5\text{cm}$ .