V7M

Virudhunagar District
Common First Mid Term Test - 2024

Standard 7
MATHS

Time: 1.30 Hrs. Marks: 30

I. Choose the best answer: **4×1=4**

1) $(-8)+10+(-2)$ = _____
   a) 2 b) 8 c) 0 d) 20

2) Which of the following expressions is equal to −30?
   a) $-20-(5\times2)$ b) $(6\times10)-(6\times5)$
   c) $(2\times5)+(4\times5)$ d) $(-6)\times(-5)$

3) The perimeter of a parallelogram whose adjacent sides are 6 cm and 5 cm is
   a) 12 cm b) 10 cm c) 24 cm d) 22 cm

4) The base of the parallelogram with area is 52 sq.cm and height 4 cm is
   a) 48 cm b) 104 cm c) 13 cm d) 26 cm

II. Fill in the blanks: **3×1=3**

5) $75+(-25)$ = _____

6) $-10\times$_____ = 20 $\frac{1}{2}\times h(a+b)$

7) The angle between the diagonals of a rhombus is _____.

III. Say True or False: **3×1=3**

8) $15-(-18)$ is the same as $15+18$.

9) $(-64)\div(-64)=0$

10) When the non-parallel sides of a trapezium are equal then it is known as a parallelogram.

IV. Match it: **3×1=3**

11) Area of parallelogram - $\frac{1}{2}\times d_1\times d_2$ sq.unit

12) Area of rhombus - $\frac{1}{2}\times h(a+b)$ sq.unit

13) Area of Trapezium - $b\times h$ sq.unit

V. Answer any four questions: **4×2=8**

14) Add the following integers using number line: −3 and −5

15) A submarine is at 300 feet below the sea level. If it ascends to 175 feet, what is its new position?

16) Each day, the workers drill down 23 feet further until they hit a pool of water. If the water is at 110 feet, on which day will they hit the pool of water?

17) One of the sides and the corresponding height of the parallelogram are 12m and 2m respectively. Find the area of the parallelogram.

18) Calculate the area of the rhombus having diagonals equal to 6m and 8m.

19) The parallel sides of a trapezium are 23 cm and 12 cm. The distance between the parallel sides is 9 cm. Find the area of trapezium.

VI. Answer any three questions: **3×3=9**

20) The product of two integers is −135. If one number is −15, find the other integer.

21) Mention the property for the following equations:
(i) $-10+3 = 7$ (ii) $0+(-7245) = -7245$ (iii) $(-15)+7 = 7+(-15)$

22) The area of trapezium is 1586 sq.cm. The distance between its parallel sides is 26 cm. If one of the parallel sides is 84 cm then, find the other side.

23) A ground is in the shape of parallelogram. The height of the parallelogram is 14 metres and the corresponding base is 8 metres longer than its height. Find the cost of levelling the ground at the rate of ₹ 15 per sq.m.

24) Kannan has a fruit shop. He sells 1 dozen banana at a loss of ₹ 2 each because it may get rotten next day. What is his loss?
