

STD - 7

FIRST MID TERM TEST - 2023

MATHEMATICS

Time : 1.00 Hours]

7007
[Marks : 30

Choose the correct Answer.

10 × 1 = 10

1. $(-10) + (+7) =$ _____
 a. +3 b. -3 c. -17 d. +17
2. Which of the following expressions is equal to -30 ?
 a. $-20 = (5 \times 2)$ b. $(6 \times 10) - (6 \times 5)$
 c. $(2 \times 5) + (4 \times 5)$ 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 area of the rhombus with side 4 cm and height 3 cm is
 a. 7 sq.cm b. 24 sq.cm c. 12 sq.cm d. 10 sq.cm
5. Choose the pair of like terms.
 a. $7p, 7x$ b. $7r, 7x$ c. $-4x, 4$ d. $-4x, 7x$

Fill in the blanks.

6. $(-5) + \underline{-95} = -100$

7. $25 + \underline{-5} = -5$

8. Area of the parallelogram = base × height

9. Area of the rhombus = side × height

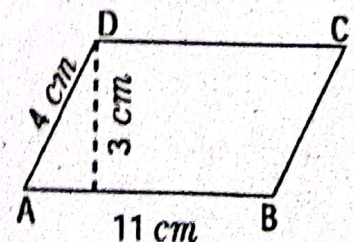
10. The constant term of the expression $2y - 6$ is -6

Answer any four questions.

4 × 2 = 8

(Qn. No.16 is compulsory) (Each question 2 marks)

11. A fruit seller sold 5 kg of mangoes at a profit of Rs. 15 per kg and 3 kg of apples at a loss of Rs. 30 per kg. Find whether it is profit or loss.
12. The product of two integers is -13 . If one number is -15 , Find the other integer.
13. Find the area and perimeter of the parallelogram.
14. Calculate the area of the rhombus whose diagonals are equal to a and b.
15. Find the sum of the expressions $a^2 + 7c$ and $2a + 10b + 9c$



16. a) Find the area of trapezium whose parallel sides are 24 cm and 20 cm and the distance between them is 15 cm. (or)
- b) Solve (i) $x+5=8$ (ii) $p-3=7$

Answer any four questions (22 is compulsory) each question 3 marks.

$4 \times 3 = 12$

17. Mention the property for the following equations

(i) $-45 + (-12) = -57$

(ii) $(-15) + 7 = (7) + (-15)$

(iii) $(-7) + [(-7) + (-4)] + (-3)$

18. Find the value of the following (i) $-3 - (-4)$ using number line

(ii) $35 - (-64)$ using number line

19. Suresh won a parallelogram shaped trophy in a state level chess tournament. He knows that the area of the trophy is 735 sq.cm and its base is 21 cm. What is the height of that trophy?

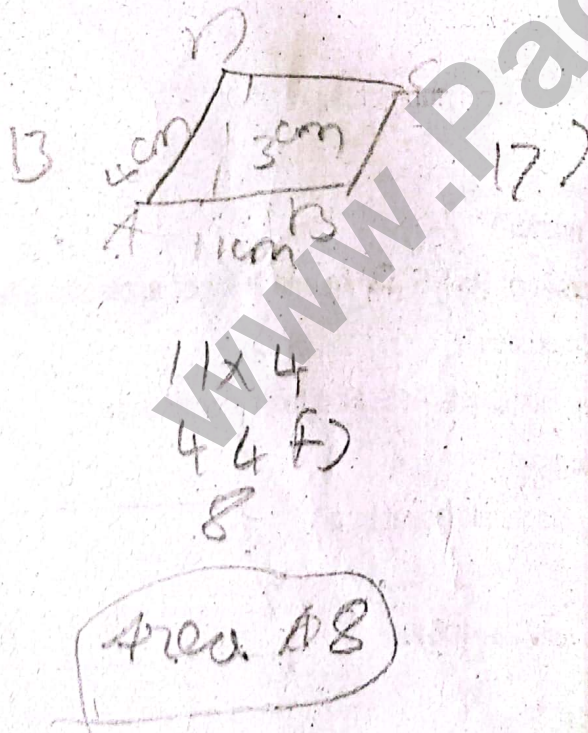
20. If the area of the rhombus is 60 sq.cm and one of the diagonals is 8 cm find the length of the other diagonal?

21. If $x=2$ and $y=3$ then find the value of the following expressions (i) $2x-36$ (ii) $x+y$

22. A) The base of the parallelogram is 16 cm and height 7cm less than its base. Find the area of the parallelogram.

(or)

B) Find two consecutive natural numbers whose sum is 75.



cominitary property
associative property
multiplicative property