INDIAN SCHOOL AL WADI AL KABIR

Dept. of Mathematics

Class : VI WINTER HOLIDAY HOME WORK Date: 20-12-17

MENSURATION

1. Find the perimeter of a scalene triangle whose three sides are 7cm , 9cm and 11cm. [Ans. P = 27cm]

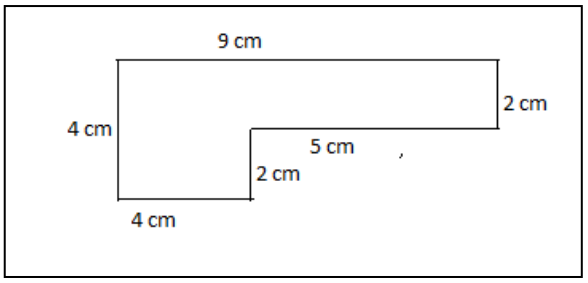
2. Find the area of a square whose each side is 20 m. [Ans. Area= 400 sq.m]

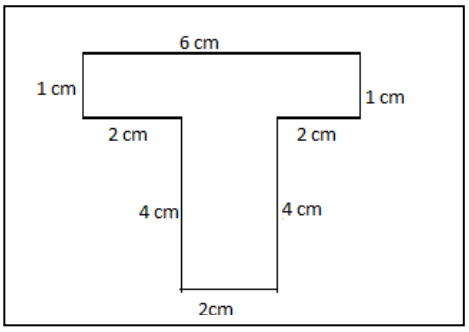
3. Find the area of a rectangle whose length and breadth are 27m and 15m. [Ans.Area = 405 m^2]

4. (a) Find the breadth of a rectangle whose length is 35 cm and the area measures 210 Sq.cm.[Ans. b=6cm]

   (b) Find the length of a rectangle whose breadth is 15m and the area 390 m^2. . [Ans. length=26m]

5. Find the perimeter and the area of the given figures:





[Ans. P = 26cm, A = 26 cm^2] [Ans. P= 22 cm, A = 14 cm^2]

6. A gardener wants to fence his rectangular garden of length 75 m and breadth 45 m with 3 rounds of wire. What is the total length of wire he must buy at the rate of ₹ 2 per metre to do this work ?
   [Ans. Length of wire = 720 m , cost = ₹ 1440]

7. How many rounds will James take to cover a total distance of 2km 800m around a square ground of side 70m each. [Ans. No. of rounds = 10]

8. How many rounds will Dan take to cover a total distance of 4km 400m around a rectangular park of length 75m and breadth 35 m ? [No. of rounds = 20]

9. Hassan wants to cover the floor of his room 7m long and 3.5 m wide with squared tiles of each side o.5m. How many tiles does he need ? [98 tiles]

10. Monu runs around a square park of side 55m and Sonu runs around a rectangular park of length 70m and breadth 45m . Both of them took 4 rounds. Who runs more distance and by how much ?[Sonu runs 40m more distance than Monu.]

[ALGEBRA]

11. Find the rule which gives the number of matchsticks required to make a pattern of letter :

(a) Z (b) W (c) L

12. What is x if (a) $x + 5 = 8$ (b) $9 - x = 3$ (c) $3x = 15$ (d) $\frac{x}{5} = 4$

13. Give expressions for the following :
(a) 6 added to a number m
(b) 3 is subtracted from a number p
(c) y multiplied by 3 then 7 added to it .
(d) A number x is multiplied by 4 and then 9 is subtracted from the product.

14. Write the statements for the following expressions: (a) $x + 8$ (b) $m - 3$ (c) $2x + 5$ (d) $\frac{x}{3} - 4$
.

15. Pick out the solution from the values given in the bracket. Also show that the other values do not satisfy the equation. (a) $6m = 30$ [4 , 5 , 6] (b) $y - 3 = 8$ [9, 10, 11] (c) $x + 4 = 9$ [3, 5 . 9]

16. If Sahil ‘s present age is ‘y’ years , then
(a) What will be his age 7 years from now?
(b) What was his age 3 years ago ?
(c) His father is 4 years more than three times his age. How old is his father ?
(d) His mother is 5 years more than twice his age. How old is she ?

17. Form any three expressions using x and 6 and one of the 4 basic operations.[+ , - , x or ÷]

18. Complete the table and find the solution to the equation $x - 4 = 5$

x	5	6	7	8	9	10
x – 4						

19. Complete the table and find the solution to the equation $2m + 3 = 21$

m	5	7	8	9	10	11
2m + 3						

20. Complete the table and find the solution to the equation : $m/3 = 5$

m	6	9	12	15	18	21
m/3						

Submission Date: 16th Jan 2018