

Tender Heart High School Sec-33B chd.

class: VII

Teacher: Ms. Deepa

Subject: Mathematics

Revision - II

Quest 1: The perimeter of a rectangle is 68m and its length is 24m. Find its breadth, area and diagonal

Quest 2: A rectangular grassy plot is 125m long and 74m broad. It has a path 2.5m wide all round it on inside. Find the cost of levelling the path at ₹ 6.80 per  $m^2$ .

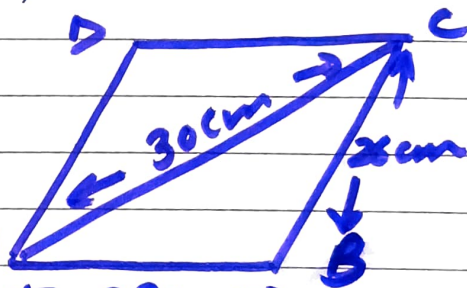
Quest 3: ABCD is a  $\parallel gm$  find

(i) area of  $\triangle ABC$

(ii) area of a  $\parallel gm$  ABCD

(Hint: ar. of  $\parallel gm$  ABCD  
 $= 2 \times (\text{ar. of } \triangle ABC)$   $\leftarrow$  28cm  $\rightarrow$

(iii) height of a  $\parallel gm$  with respect to side = 28cm



Quest 4. a) Find the perimeter and area of circle of radius 10.5cm

b) The area of a circle is  $38.5 \text{ cm}^2$ , find its radius and circumference.

Quest 5. A wall of length 13.5m, width 60cm and height 1.6m is to be constructed by using bricks, each of dimensions 22.5 cm by 12cm by 8cm. How many bricks will be needed?

Hint (No. of bricks =  $\frac{\text{Volume of Wall}}{\text{Volume of brick}}$ )

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Quest 6: A room 9m long, 6m broad and 3.6m high find the (i) cost of carpeting its floor @ ₹ 154 per  $m^2$

(ii) cost of papering its walls at rate of ₹ 35 per  $m^2$ .

(Hint: (i) Area of carpeting<sup>room</sup> =  $l \times b$

$$\Rightarrow \text{Cost} = ₹ 154 \times (\text{area})$$

(ii) Area of papering its walls =  $2(l+b) \times h$

$$\Rightarrow \text{Cost} = ₹ 35 \times (\text{area of papering})$$

Quest 7: a) A die is rolled once. What is the probability of getting

(i) an odd number? (ii) a composite number?

(iii) a number less than 5? (iv) a multiple of 3?

b) A letter is chosen at random from the letters of the word "EXAMINATION".

What is the probability that it is a

(i) vowel? (ii) a consonant?

Quest 8. Construct a triangle ABC, where  $AB = 5 \text{ cm}$ ,  $\angle A = 60^\circ$ ,  $\angle B = 90^\circ$ .

Quest 9. Construct a right angled  $\triangle PQR$ , where  $PQ = 4.6 \text{ cm}$ ,  $QR = 5.1 \text{ cm}$ .

Quest 10. The wheel of a car has a radius 140cm and it takes 10 minutes to make 400 rotations. Find the speed of the car in km/hr.

