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G.D.GOENKA PUBLIC SCHOOL

Subject: Mathematics (6th)

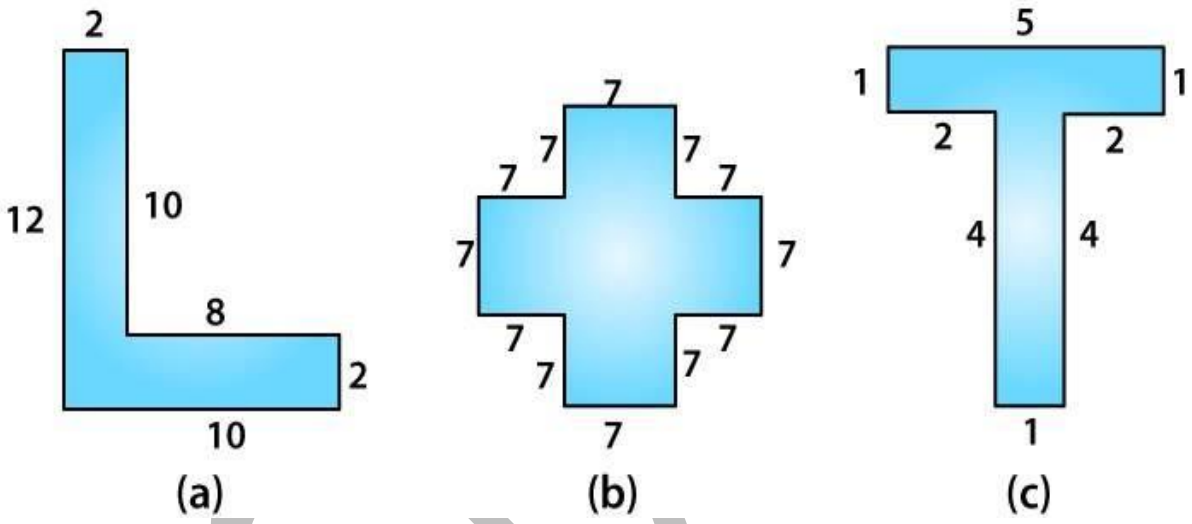
Aspect: Home- Assignment

Date: 11-09-2020

Chapter No. 10 (Mensuration)

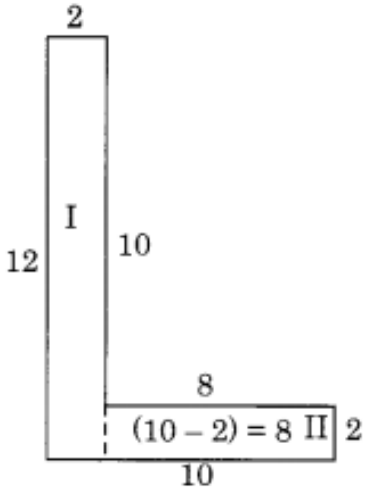
Exercise 10.3 Page no: 219

Q11.Split the following shapes into rectangles and find their areas. (The measures are given in centimetres)



Solution: (a)

Splitting the given figure into the rectangles I and II, we get



(a) Area of the rectangle I

= 12 cm x 2 cm

= 24 sq cm

Area of the rectangle II

= 8 cm x 2 cm

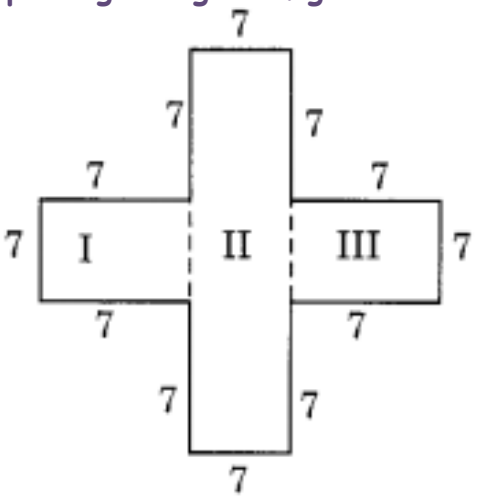
= 16 sq cm

∴ Total area of the whole figure = 24 sq cm + 16 sq cm

= 40 sq cm.

(b)

Splitting the given figure into the rectangles I, II and III, we get



Area of the rectangle I

= 7 cm x 7 cm

= 49 sq cm

Area of the rectangle II

= 21 cm x 7 cm

= 147 sq cm

Area of the rectangle III

= 7 cm x 7 cm

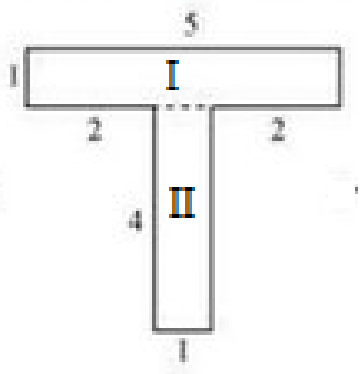
= 49 sq cm

∴ Total area of the whole figure

= 49 sq cm + 147 sq cm + 49 sq cm

= 245 sq cm.

(c)



Area of rectangle I
= 5 cm × 1 cm
= 5 sq cm
Area of rectangle II
= 4 cm × 1 cm
= 4 sq cm
Total area = 5 sq cm + 4 sq cm
= 9 sq cm

Write Q11 in your mathematics notebook.