MATHS

BOOKS - CENGAGE

SPECIAL LINES AND AREAS

Worked Examples

1. Find the area of a parallelogram whose base is 8.5 cm and height 4 cm .

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2. Find the base of a parallelogram whose area is $85cm^2$ and altitude is 17 cm .

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3. P is a point on the side AB of $\triangle ABC$, such that 5AP =2AB.

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4. ABC is a triangle ,and XY is drawn parallel to BC cutting AB at X and AC at Y .

If AB = 7.2 cm , AC = $4.8cm$, and AX = 4.2 cm ,find AY.

5. ABC is a triangle ,and XY is drawn parallel to BC cutting AB at X and AC at Y .

If AB = 12 cm , AC = 9 cm , and AY = 5.4 cm , find BX .

6. ABC is a triangle ,and XY is drawn parallel to BC cutting AB at X and AC at Y .

If AX = 5.6 cm , XB = 1.6 cm , and AY = 8.4 cm , find AC.

7. If AX = 10.8 cm ,AB = 12 cm and YC = 3 cm , find AC.

8. The bases of an isosceles trapezium are 8 and 4 , and each of the non - parallel sides be produced to form a triangle ?

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9. In the figure , AD is bisector of $\widehat{A}$. If BC = 10 cm , BD = 6 cm , and AC = 6 cm, find AB.

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10. In the figure , find x of $DE\|BC$. All measurements are in cm .