

Exercise 7A

Solution 1: From given triangle, points D and E are on the sides AB and AC respectively such that $DE \parallel BC$.

(i) $AD = 3.6$ cm, $AB = 10$ cm and $AE = 4.5$ cm.

Here $DB = AB - AD = 10 - 3.6 = 6.4$

By Thale's Theorem:

$$\frac{AD}{DB} = \frac{AE}{EC}$$

$$\Rightarrow \frac{3.6}{6.4} = \frac{4.5}{EC}$$

$$\Rightarrow EC = \frac{4.5 \times 6.4}{3.6}$$

$$\Rightarrow EC = \frac{45 \times 64}{36 \times 10}$$

$$\Rightarrow EC = 8 \text{ cm}$$

And, $AC = AE + EC = 4.5 + 8 = 12.5$ cm

Hence, $AC = 12.5$ cm and $EC = 8$ cm

(ii) If $AB = 13.3$ cm, $AC = 11.9$ cm and $EC = 5.1$ cm, find AD.

By Thale's Theorem:

$$\frac{AD}{DB} = \frac{AE}{EC}$$

$$\Rightarrow \frac{AD}{DB} + 1 = \frac{AE}{EC} + 1 \quad [\text{Adding 1 on both sides}]$$

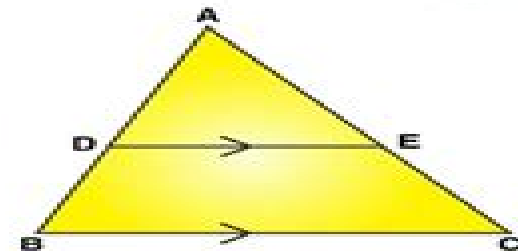
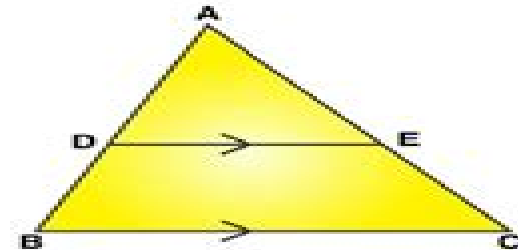
$$\Rightarrow \frac{AD + DB}{DB} = \frac{AE + EC}{EC}$$

$$\Rightarrow \frac{AB}{DB} = \frac{AC}{EC}$$

$$\Rightarrow DB = \frac{AB \times EC}{AC}$$

$$\Rightarrow DB = \frac{13.3 \times 5.1}{11.90}$$

$$\Rightarrow DB = 5.7$$



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