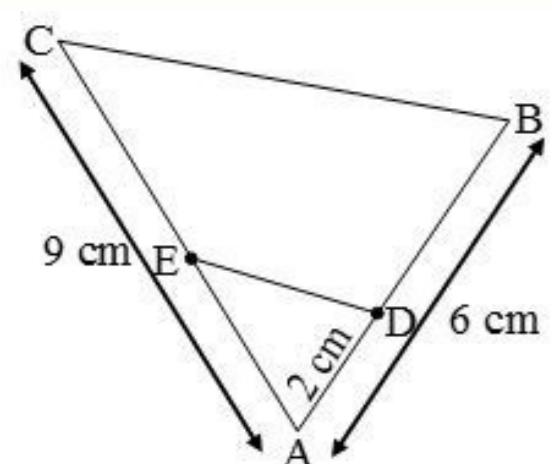


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Let $AE = x \text{ cm}$

Then $EC = (9 - x) \text{ cm}$

$AD = 2 \text{ cm}$

$DB = (6 - 2) \text{ cm} = 4 \text{ cm}$

We have $\frac{AE}{BE} = \frac{AD}{DB}$

[By Basic Proportionality Theorem]

$$\Rightarrow \frac{x}{9-x} = \frac{2}{4} \Rightarrow 4x = 2(9-x)$$

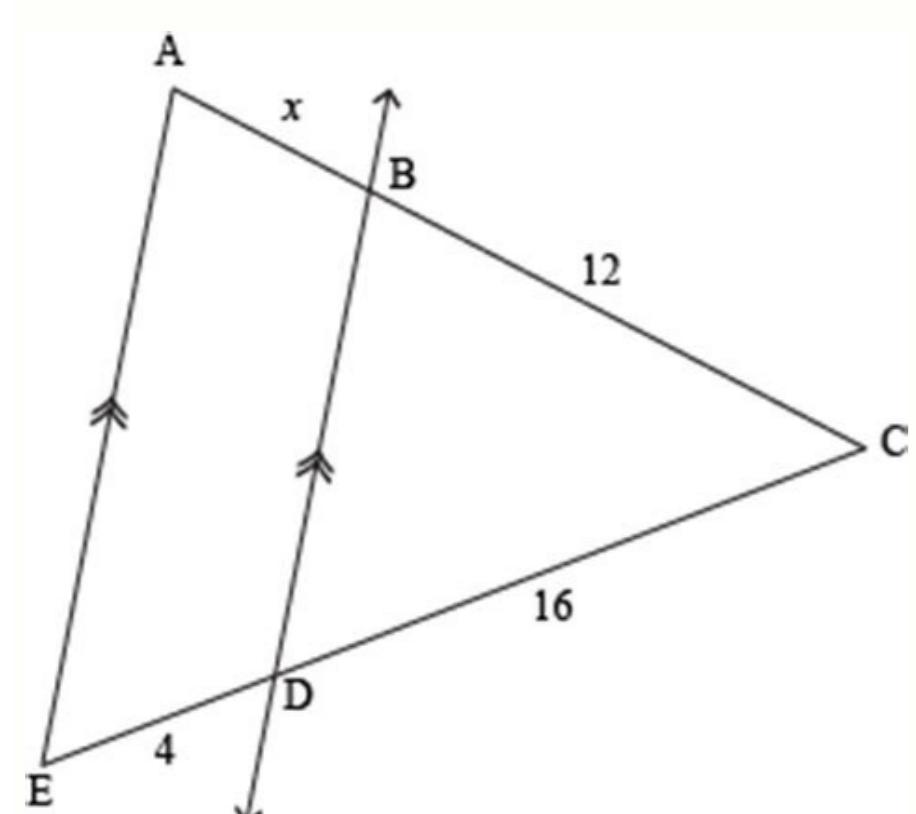
$$\Rightarrow 6x = 18 \Rightarrow x = 3$$

Hence, $AE = 3 \text{ cm}$

Student Matching Card Set

R		Q
P	20	0
1	10	4
9	11	M
9	56	15
N		P

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CLASS 10 MATHEMATICS

THEOREM - PROOF

CONVERSE OF BASIC

PROPORTIONALITY

THEOREM



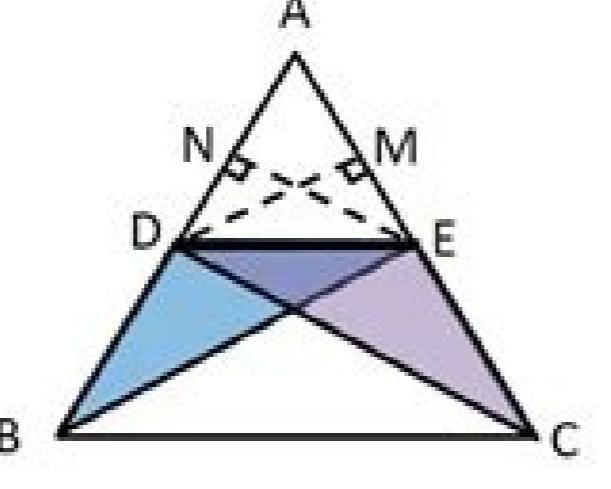
Now,

ΔBDE and ΔDEC are on the same base DE and between the same

parallel BC and DE.

$$\therefore \text{ar} (\text{BDE}) = \text{ar} (\text{DEC})$$

Hence,



$$\frac{\text{ar} (\text{ADE})}{\text{ar} (\text{BDE})} = \frac{\text{ar} (\text{ADE})}{\text{ar} (\text{DEC})}$$

(From (A) and (B))

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

Hence Proved.

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