
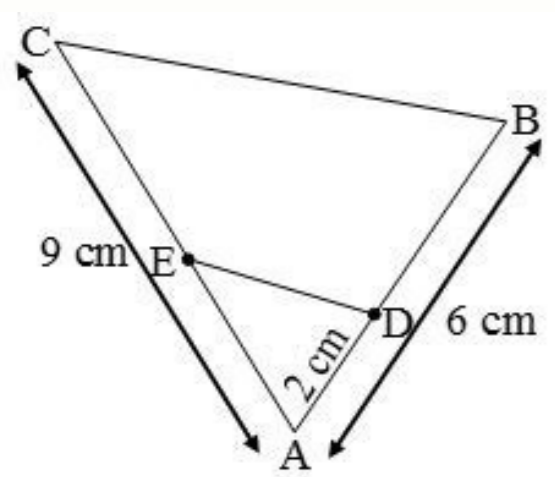


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Let $AE = x$ cm
 Then $EC = (9 - x)$ cm
 $AD = 2$ cm
 $DB = (6 - 2)$ cm = 4 cm

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

[By Basic Proportionality Theorem]

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

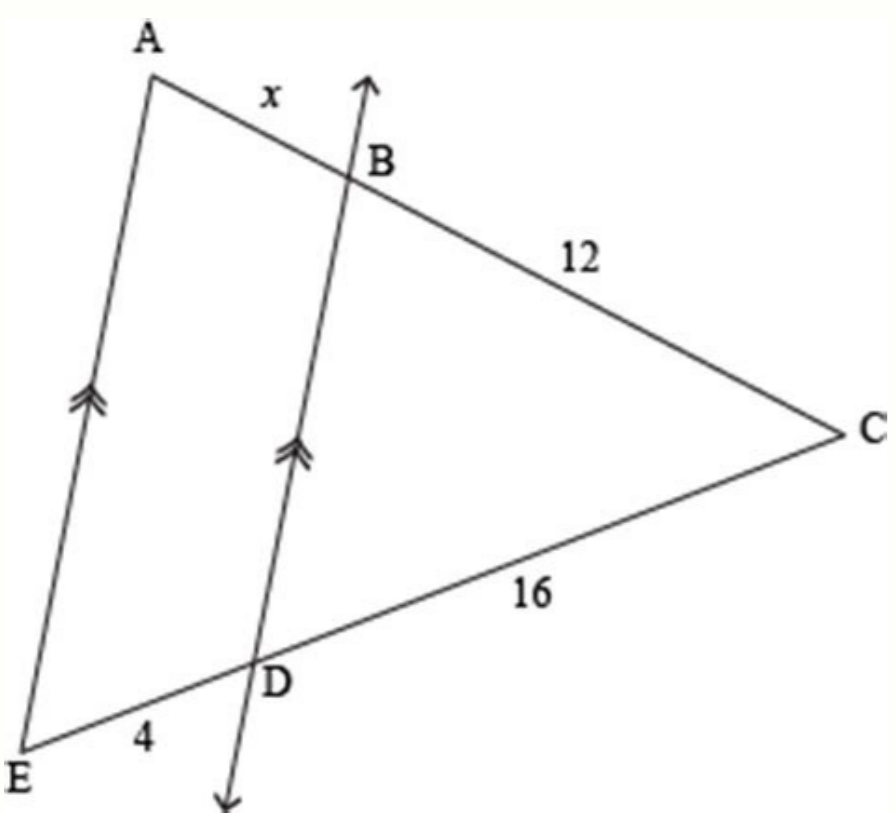
$\Rightarrow 6x = 18 \Rightarrow x = 3$

Hence, $AE = 3$ cm

Student Matching Card Set

20	
10	11
11	
36	27

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CLASS 10 MATHEMATICS
THEOREM - PROOF
CONVERSE OF BASIC
PROPORTIONALITY
THEOREM

