

Class 10 Mathematics - Triangles

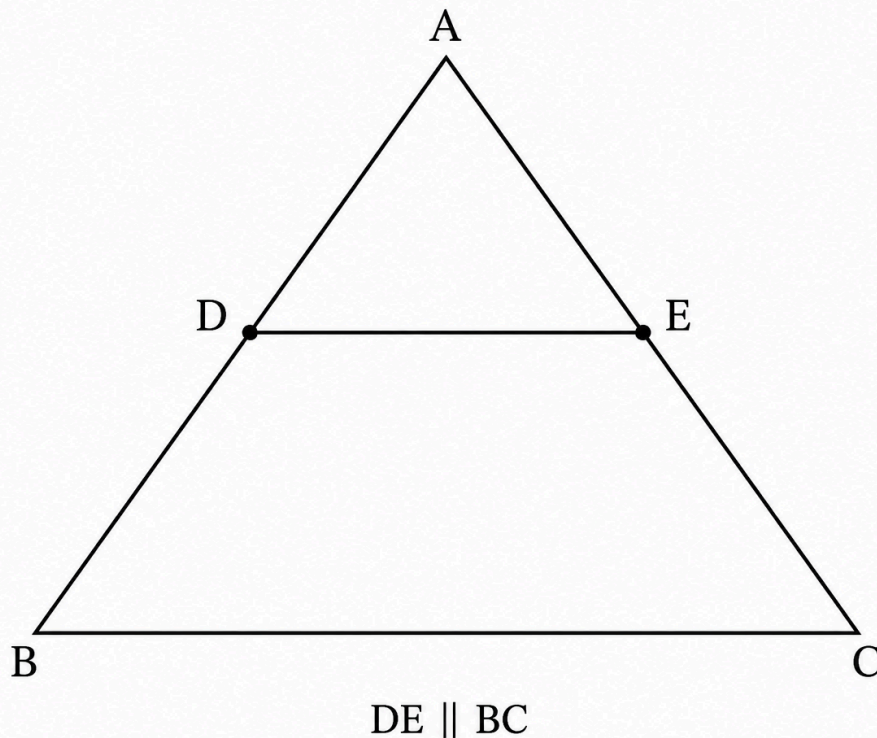
Name: _____

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Advanced Worksheet 1

Questions

For Questions 1 - 4, refer to the figure:



1. In $\triangle ABC$, $DE \parallel BC$. If $AD = 4$ cm, $DB = 8$ cm and $AE = 6$ cm, find EC .
2. If $AD = 5$ cm, $DB = 10$ cm and $AC = 18$ cm, find AE .
3. If $AD = 6$ cm, $AB = 15$ cm and $AC = 20$ cm, find AE .
4. In $\triangle ABC$, $DE \parallel BC$. If $AE = 8$ cm, $EC = 12$ cm and $AD = 6$ cm, find DB .
5. State the Basic Proportionality Theorem.
6. State the Converse of the Basic Proportionality Theorem.

Answer Key

1. 12 cm
2. 6 cm
3. 8 cm
4. 9 cm
5. A line drawn parallel to one side of a triangle divides the other two sides in the same ratio.
6. If a line divides two sides of a triangle in the same ratio, then the line is parallel to the third side.