

Class 10 Mathematics - Triangles

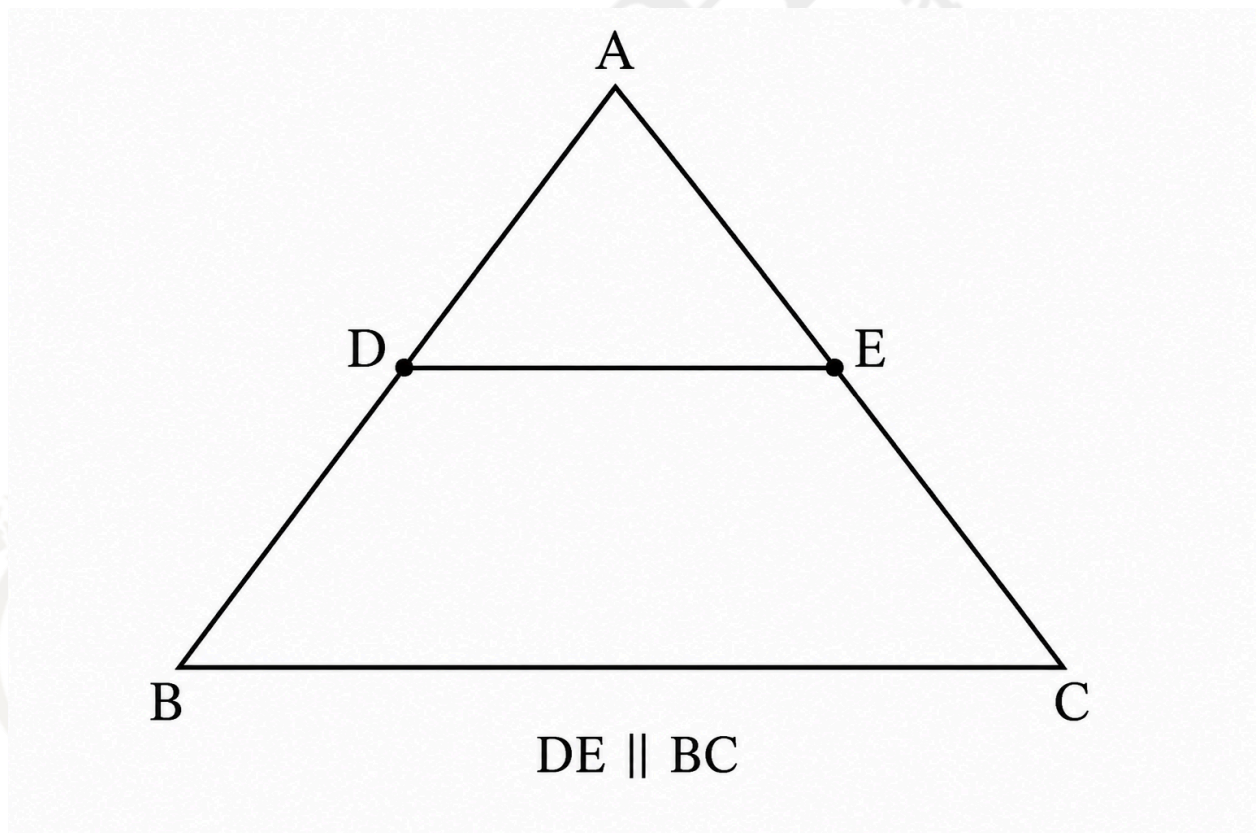
Name: _____

Date: _____

Medium Worksheet 1

Questions

For Questions 1 - 3, refer to the figure:



1. In $\triangle ABC$, D lies on AB and E lies on AC. If $AD = 4$ cm, $DB = 6$ cm and $AE = 8$ cm, find EC.

2. If $AD = 3$ cm, $DB = 9$ cm and $AE = 2$ cm, find AC .
3. If $AD/DB = 5/7$, find AE/EC .
4. State the Basic Proportionality Theorem.
5. What condition must be satisfied for BPT to be applicable?
6. In $\triangle ABC$, if $DE \parallel BC$ and $AD = 6$ cm, $DB = 3$ cm, $AE = 10$ cm, find EC .

Answer Key

1. 12 cm
2. 8 cm
3. $5/7$
4. A line drawn parallel to one side of a triangle divides the other two sides in the same ratio.
5. The line must be parallel to one side of the triangle.
6. 5 cm