

Class 10 Mathematics - Triangles

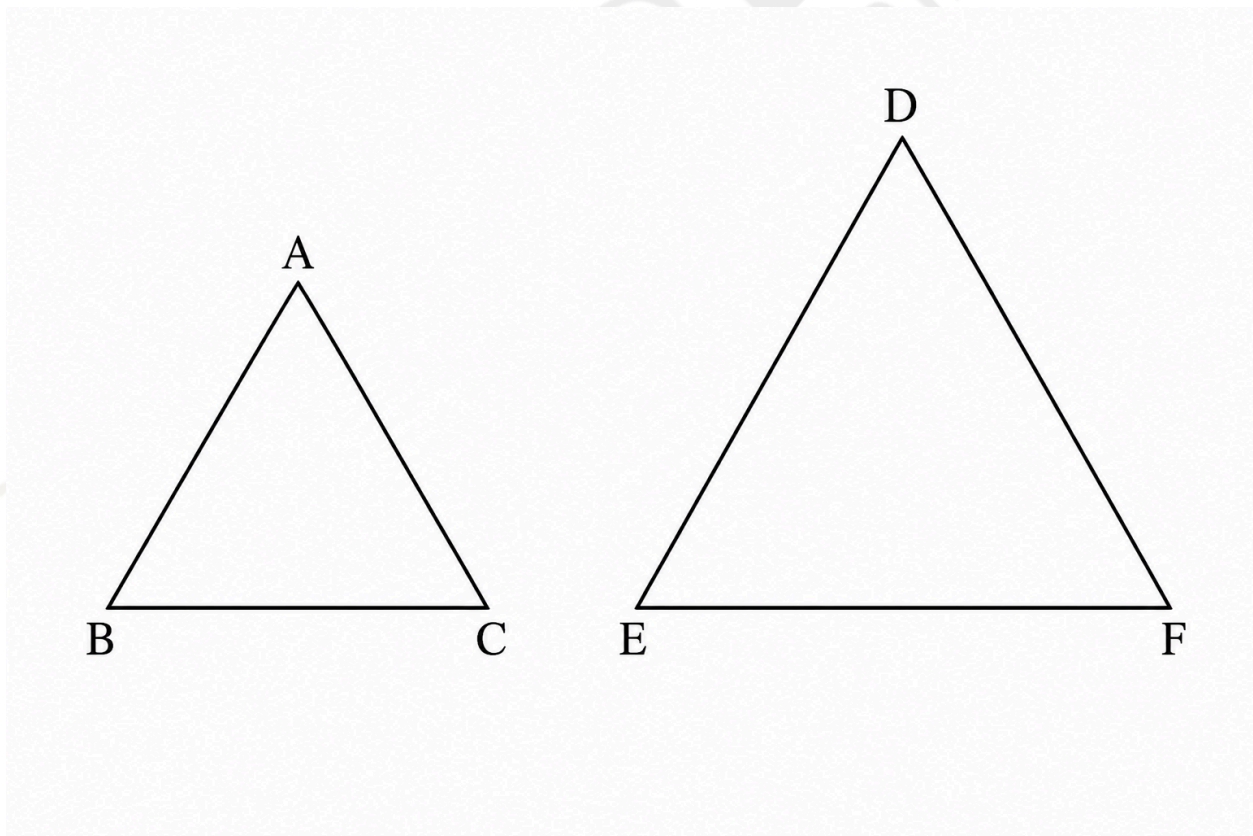
Name: _____

Date: _____

Advanced Worksheet 2

Questions

For Questions 1–4, refer to the figure:



1. If $\triangle ABC \sim \triangle DEF$ and $AB = 6$ cm, $DE = 9$ cm, $BC = 8$ cm, find EF .

2. If $AB = 4$ cm, $AC = 5$ cm and $DE = 12$ cm, find DF .
3. If $AB = 8$ cm, $BC = 12$ cm and $DE = 10$ cm, find EF .
4. If $AB/DE = BC/EF = AC/DF = 2/3$ and $AB = 10$ cm, find DE .
5. State the SSS Similarity Criterion.
6. State the SAS Similarity Criterion.

Answer Key

1. 12 cm
2. 15 cm
3. 15 cm
4. 15 cm
5. If corresponding sides of two triangles are proportional, then the triangles are similar.
6. If one angle is equal and the including sides are proportional, then the triangles are similar.