

Class 10 Mathematics - Triangles

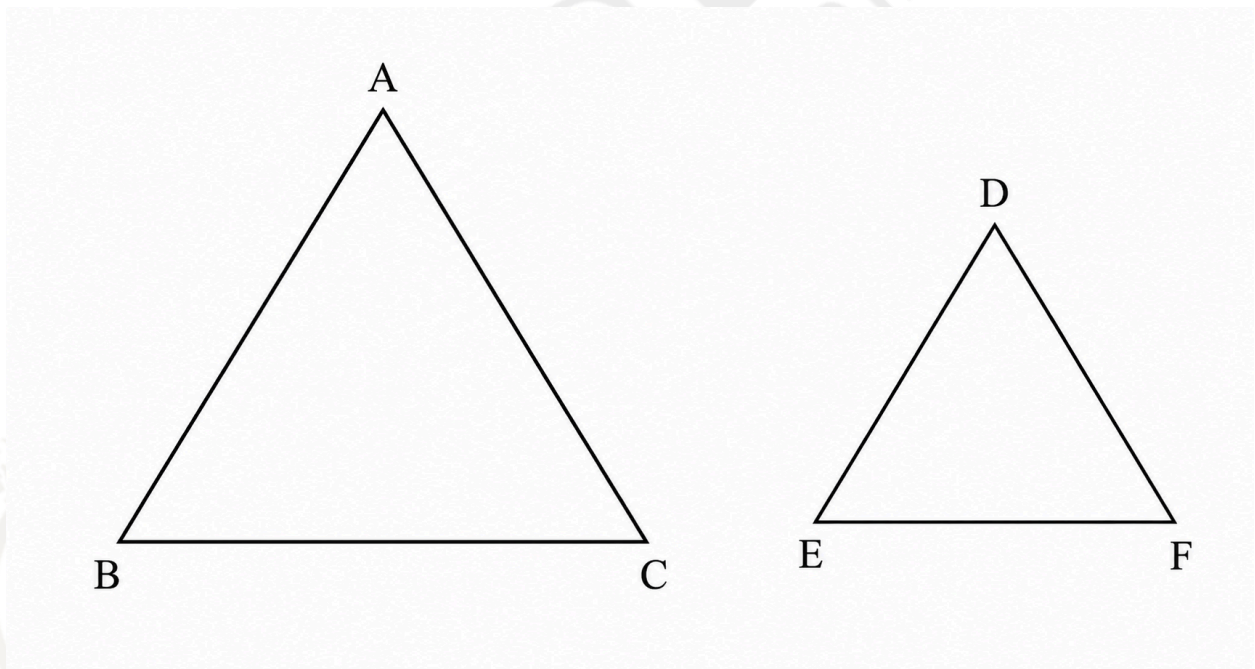
Name: _____

Date: _____

Medium Worksheet 3

Questions

For Questions 1 - 3, refer to the figure:



1. If $\triangle ABC \sim \triangle DEF$ and $AB = 6$ cm, $DE = 9$ cm, find the scale factor.
2. If $AB = 4$ cm, $BC = 6$ cm and $DE = 8$ cm, find EF .
3. If $\triangle ABC \sim \triangle DEF$ and $AC = 10$ cm, $DF = 15$ cm, find AB/DE .

4. State the AA Similarity Criterion.
5. State the SSS Similarity Criterion.
6. State the SAS Similarity Criterion.

Answer Key

1. $\frac{3}{2}$
2. 12 cm
3. $\frac{2}{3}$
4. If two angles of one triangle are equal to two angles of another triangle, the triangles are similar.
5. If corresponding sides are proportional, the triangles are similar.
6. If one angle is equal and the including sides are proportional, the triangles are similar.