

Similarity

Two triangles are similar if all the angles in one triangle are equal to the angles of the other triangle. Corresponding sides of similar triangles are proportional and their ratios are equal.

Check the following by measurement using a ruler:

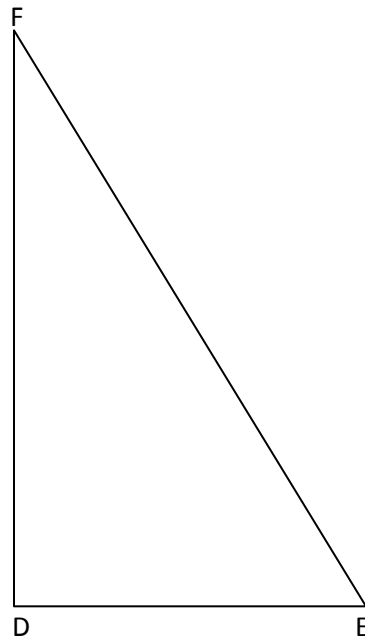
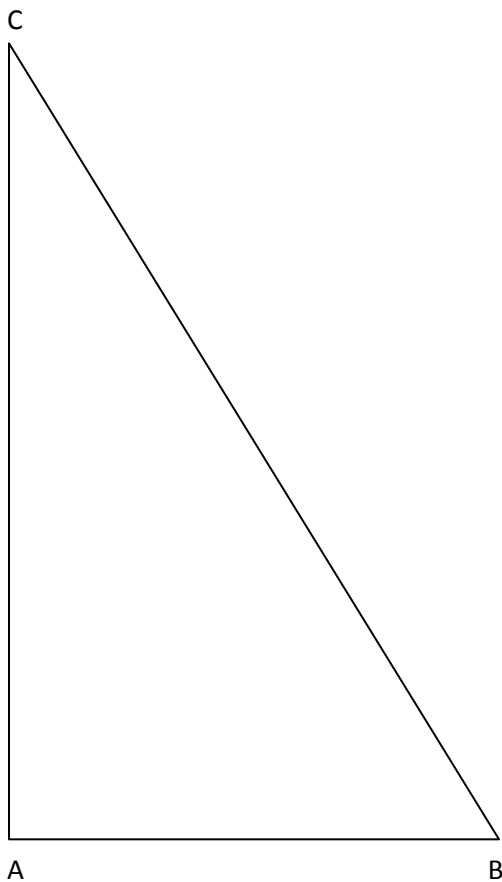
$ABC \sim DEF$ (This stands for triangle ABC is similar to triangle DEF)

If $ABC \sim DEF$ then the following ratios are equal:

$$\frac{AB}{BC} = \frac{DE}{EF}$$

$$\frac{AB}{DE} = \frac{BC}{EF}$$

$$\frac{BC}{EF} = \frac{AC}{DF}$$



Check the above ratios by measurement and find some more ratios of your own using the above triangles.