

## ***Section 13.3: Similar Triangles***

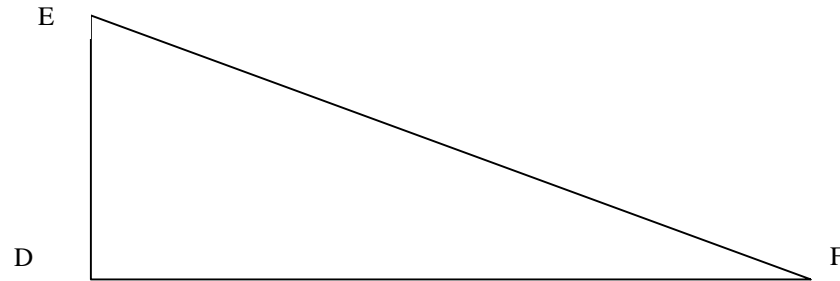
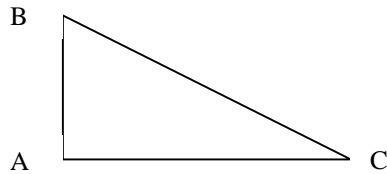
Materials needed:

- Compass
- Protactor
- Patty paper
- Scissors
- Straight edge
- Mira (Reflecta)
- Index card

Compare congruency and similarity

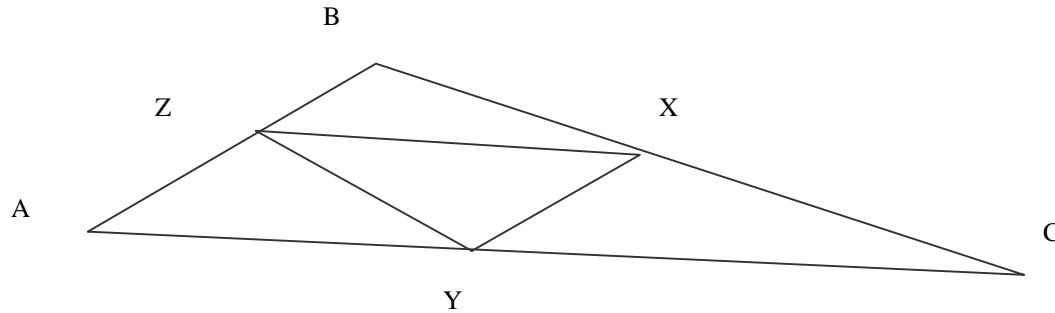
Give two experiences outside of the math classroom that are examples of similar shapes.

Define: Similar Triangles and the Scale Factor



Explain how to conclude that two triangles are similar even if all information about the triangles is not given (that is, if you don't know the measure of all angles and of all sides of both triangles).

Define a ‘medial’ triangle and explain how a medial triangle is similar to the original triangle  $\triangle ABC$  by a size factor of  $\frac{1}{2}$ .



Draw an oblique triangle on a note card and construct the centroid of a triangle. Illustrate why the centroid is also known as the center of gravity of a triangle.

Other problems:

Pg. 860 - 862 #7, 9, 14, 22