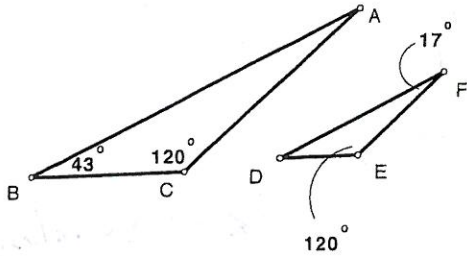


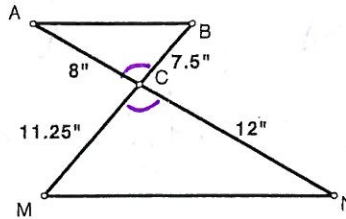
WORKSHEET - SIMILAR POLYGONS & TRIANGLES

Determine if each pair of triangles is similar. If they are similar, complete the similarity statement and state the method used to prove the similarity.

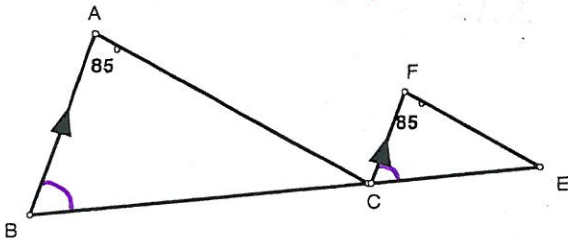
1) $\triangle ABC \sim \triangle FDE$ by AA~



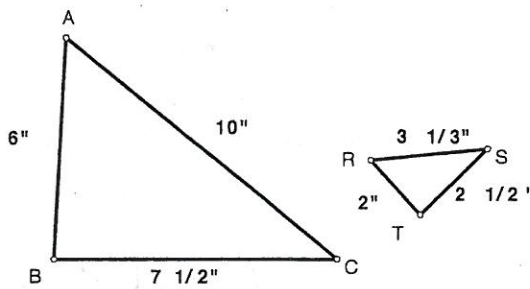
2) $\triangle ABC \sim \triangle NMC$ by SAS~



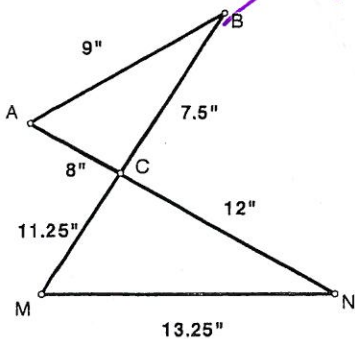
3) $\triangle ABC \sim \triangle FCE$ by AA~



4) $\triangle ABC \sim \triangle RTS$ by SSS~



5) $\triangle ABC \sim \triangle$ by _____



Not similar!

$$\frac{7.5}{11.25} = \bar{.6}$$

$$\frac{8}{12} = \bar{.6}$$

$$\frac{9}{13.25} = .6792$$

17) $\triangle ABC \sim \triangle DEF$; $m\angle A = 82^\circ$; $m\angle E = 64^\circ$; $x = 7.6$;
 $y = 13.1$; $z = 15.3$.

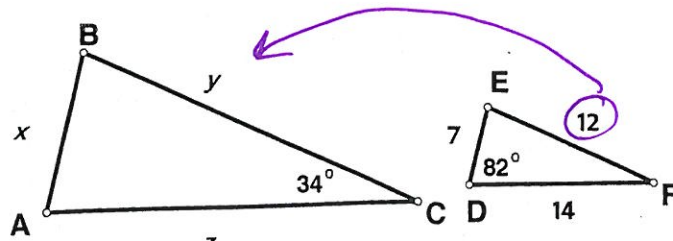
The perimeter of $\triangle ABC$ is 36.

$$\frac{P_A}{P_B} = \text{scribble}$$

$$\frac{33}{36} = \frac{12}{y}$$

$$\frac{33}{36} = \frac{7}{x}$$

$$\frac{33}{36} = \frac{14}{z}$$



$$P_B = 36$$

$$P_S = 33$$