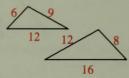
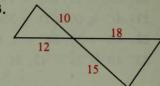
Self-Test 2

State the postulate or theorem you can use to prove that two triangles are similar.







4. Complete.

a.
$$\triangle ABC \sim ?$$

c.
$$\frac{15}{?} = \frac{21}{?}$$

Complete.
a.
$$\triangle ABC \sim \frac{?}{?}$$
 b. $\frac{AB}{?} = \frac{AC}{?} = \frac{BC}{?}$

c.
$$\frac{15}{?} = \frac{21}{?}$$
, **d.** $\frac{15}{?} = \frac{?}{12}$, and $y = \underline{?}$

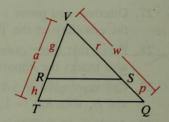
In the figure, it is given that $\overline{RS} \parallel \overline{TQ}$. Complete each proportion.

5.
$$\frac{g}{h} = \frac{?}{p}$$

$$6. \ \frac{a}{h} = \frac{w}{?}$$

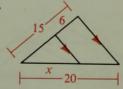
7.
$$\frac{r}{g} = \frac{p}{?}$$

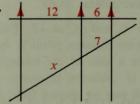
8.
$$\frac{h}{p} = \frac{?}{w}$$



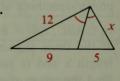
Find the value of x.

9.





11.



Challenge

Given: $\overline{FD} \parallel \overline{AC}$; $\overline{BD} \parallel \overline{AE}$; $\overline{FB} \parallel \overline{EC}$

Show that B, D, and F are midpoints of \overline{AC} , \overline{CE} , and \overline{EA} .

