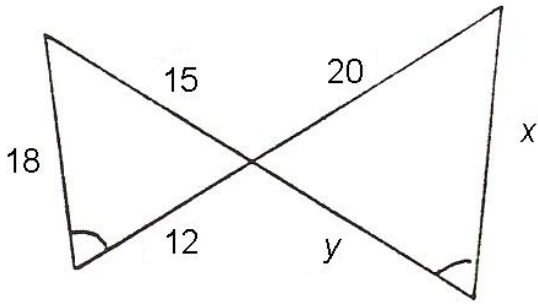
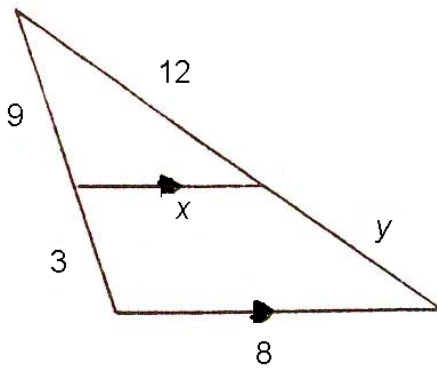


**DIRECTIONS:** Mark the diagrams with congruent angles so you can use AA Similarity.



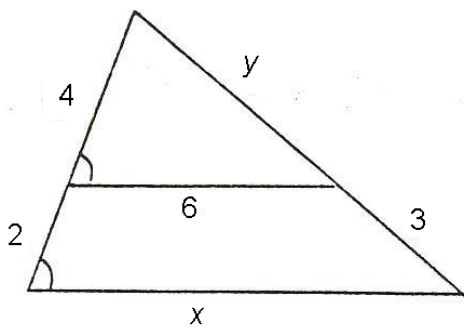
1. What is the scale factor for the two triangles? **3:4 (or 4:3)**

$x = 24$                        $y = 16$



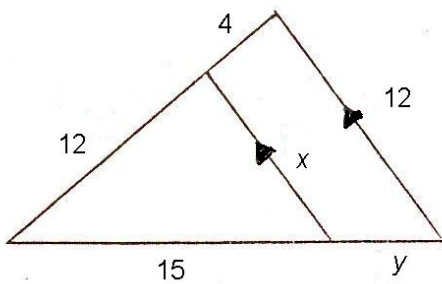
2. What is the scale factor for the two triangles? **3:4 (or 4:3)**

$x = 6$                        $y = 4$



3. What is the scale factor for the two triangles? **2:3 (or 3:2)**

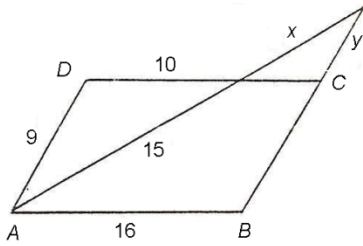
$x = 9$                        $y = 6$



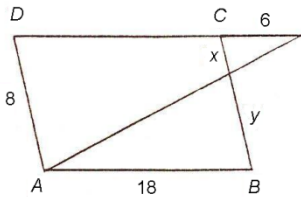
4. What is the scale factor for the two triangles? **3:4 (or 4:3)**

$x = 9$                        $y = 5$

**DIRECTIONS:** ABCD is a parallelogram. Look for triangles inside triangles so you can use AA Similarity. You will need to find a scale factor to solve for  $x$  and  $y$ .



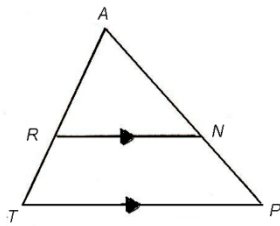
5.  $x = 9$        $y = \frac{27}{5}$  or  $5\frac{2}{5}$  or 5.4



6.  $x = 2$        $y = 6$

**DIRECTIONS:** Complete the chart for each problem.

7.

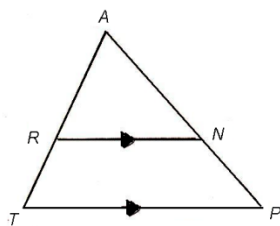


AR	RT	AT
6	4	10

AN	NP	AP
9	6	15

RN	TP
9	15

8.

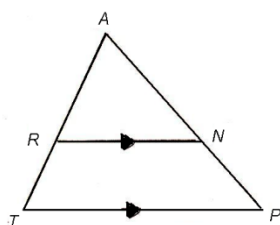


AR	RT	AT
12	8	20

AN	NP	AP
18	12	30

RN	TP
15	25

9.



AR	RT	AT
9	18	27

AN	NP	AP
13	26	39

RN	TP
12	36

