

Name _____

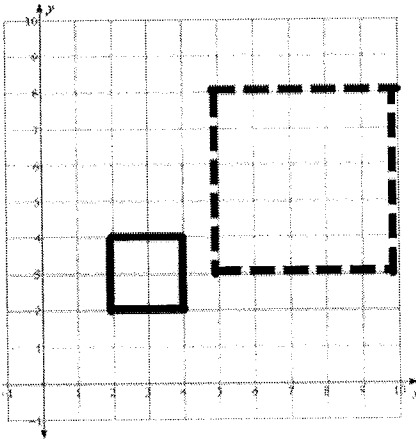
Hour _____

Dilation and Perimeter Ratio Warm Up

1. Use the dilation below to answer the following questions. The dotted figure is the dilation image.
- a) **Find the scale factor** for the dilation below with the center at the origin.

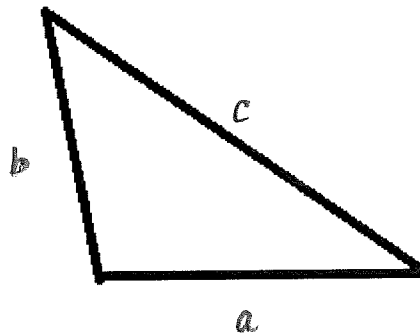
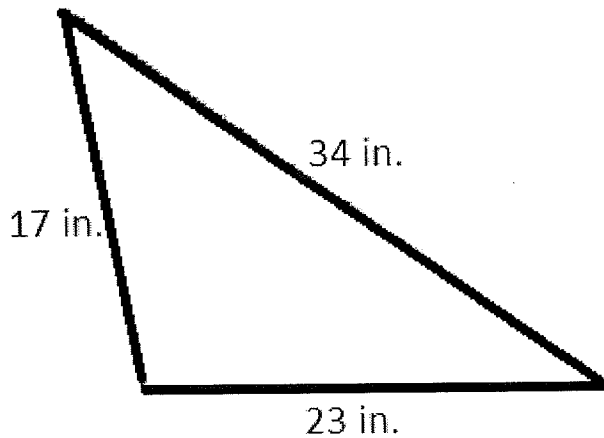
SF = _____

- b) Determine whether the dilation is an **enlargement, reduction, or congruent transformation**.



Classification: _____

2. Find a , b , and c if the two triangles below are similar and the smaller triangle has a perimeter of 56 inches. Round answers to the nearest tenth if necessary.



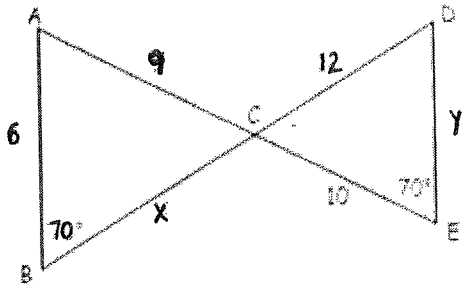
$a =$ _____

$b =$ _____

$c =$ _____

ALERT: DO YOU KNOW THE DIFFERENCE? Flipped OR Twisted??

1.



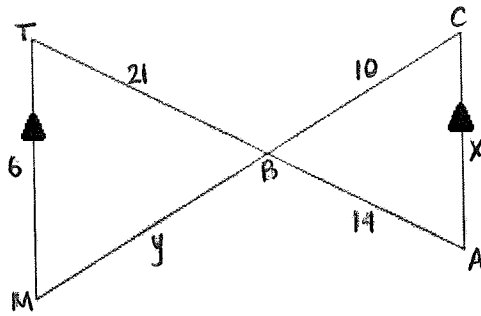
BC corresponds to _____

AC corresponds to _____

AB corresponds to _____

Find x & y.

2.



BC corresponds to _____

AC corresponds to _____

AC corresponds to _____

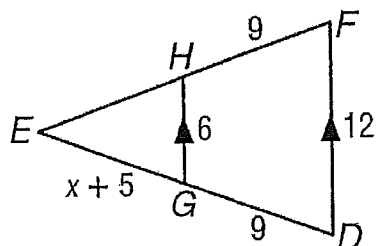
Find x & y.

Name: _____

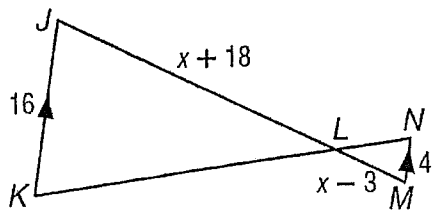
Practice Examples

Identify the similar triangles, how you know they are similar, find the variable(s) and the measures of the indicated sides.

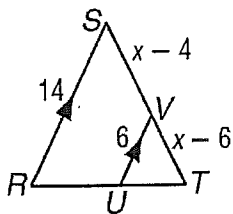
1. \overline{EH} and \overline{EF}



2. \overline{JL} and \overline{LM}

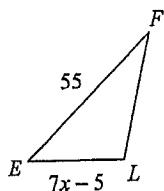
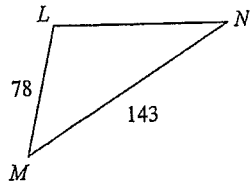


3. \overline{VT} and \overline{ST}

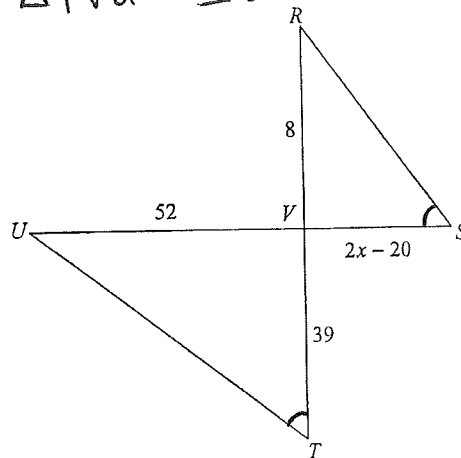


Solve for x . The triangles in each pair are similar.

12) $\triangle LMN \sim \triangle LEF$



13) $\triangle TVU \sim \triangle SVR$



14)

