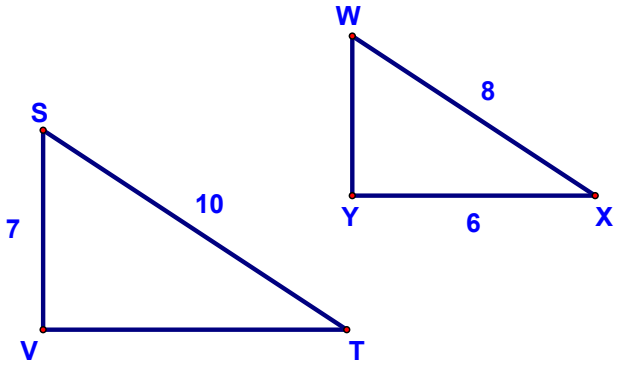
9.

Given: △SVT ~ △WYX with measures as shown

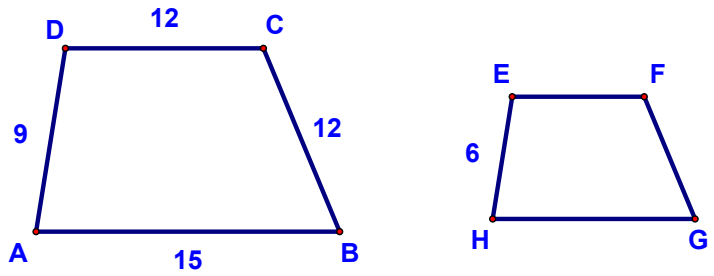
Find: WY and VT



10.

Given: ABCD ~ HGFE with measures as shown

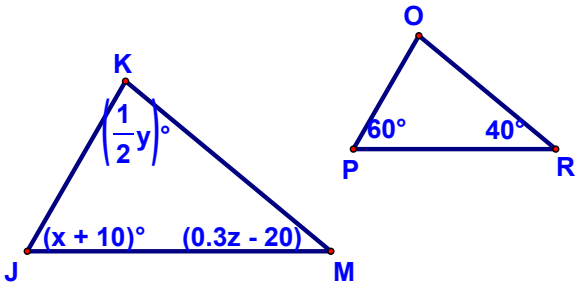
Find:
a. The ratio of the lengths of corresponding sides
b. EF
c. The perimeter of EFGH
d. The ratio of the perimeters



11.

Given: $\triangle KJM \sim \triangle OPR$ with angles as shown

Find: $\dfrac{x + y + z}{2}$



12.

Find the ratio of the fourth proportional of 1, 2, and 3 to the fourth proportional of 4, 5, and 6.

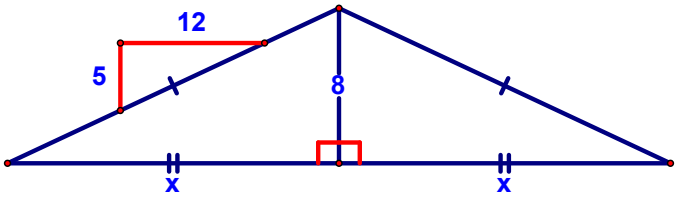
13.

If $\dfrac{8}{2x - 3y} = \dfrac{7}{6x - 4y}$**, find the ratio of x to y.**

$$\frac{8}{2x - 3y} = \frac{7}{6x - 4y}$$

14.

The roof of a house has a slope of $\frac{5}{12}$. What is the width of the house if the height of the roof is 8 ft?



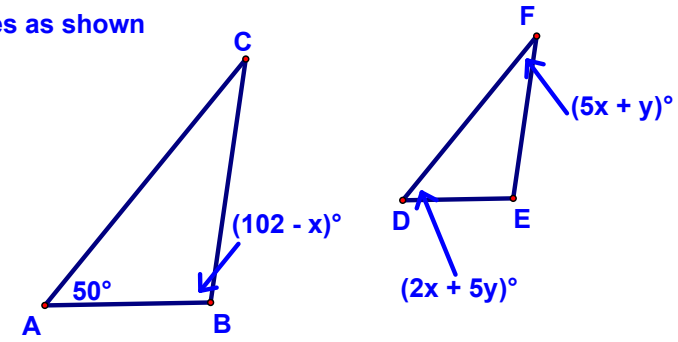
15.

Hammond R. looked at the plans for the new house he was building. The plans were drawn to a scale of $\frac{1}{4}$ in. = 1 ft. He measured the size of a room on the plans and found it to be 2.75 in. by 3.5 in. What are the dimensions of the room in feet?

18.

Given: △ABC ~ △DEF with angles as shown

Find: m∠F



19.

Given: △SVT ~ △NPR

Find: TV
NP
SV