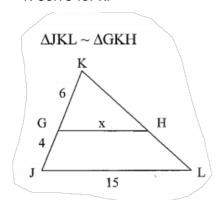
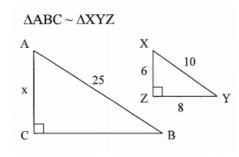
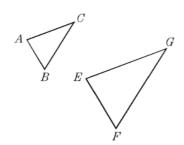
1. solve for x.



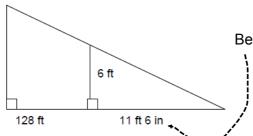
2. solve for x.



- 3. Given $\triangle BIG \sim \triangle SKY$. Solve for x and y if BI = 4x + 4, IG = 40, BG = 5y + 3, SK = 2.5x + 6, KY = 30, and SY = 4y.
- 4. A statue that is 12 ft tall casts a shadow that is 15 ft long. Find the length of the shadow that a 8 ft cardboard box casts.
- 5. In the diagram, $\triangle ABC \sim \triangle EFG$, AB = 12, EF = 30, BC = x, and FG = 2x + 11. What is the value of x?

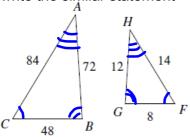


A man 6 ft tall casts a shadow that is 11 ft. 6 in. long. The end of his shadow coincides with the end of the shadow cast by a building 128 ft. from the man. Find the height of the building.

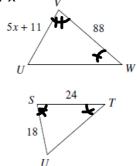


Be careful here. Watch the units. this will be 11.5 ft

 Find the scale factor and write the similar statement

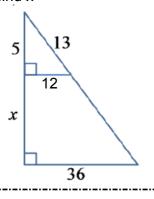


8. solve for x

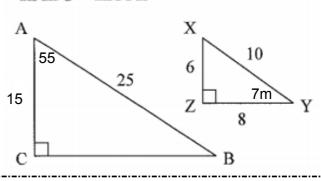


Find m.

9. find x

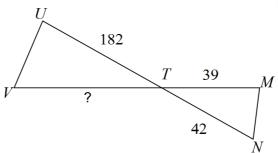


 $\Delta ABC \sim \Delta XYZ$

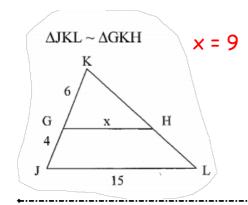


11

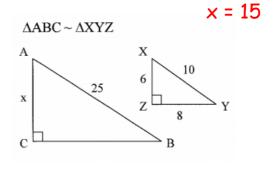
 $\triangle TUV \sim \triangle TMN$



1. solve for x.



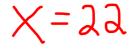
2. solve for x.

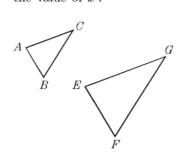


3. Given $\triangle BIG \sim \triangle SKY$. Solve for x and y if BI = 4x + 4, IG = 40, BG = 5y + 3, SK = 2.5x + 6, KY = 30, and SY = 4y.

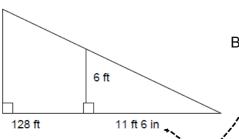
4. A statue that is 12 ft tall casts a shadow that is 15 ft long. Find the length of the shadow that a 8 ft cardboard box casts.

5. In the diagram, $\triangle ABC \sim \triangle EFG$, AB = 12, EF = 30, BC = x, and FG = 2x + 11. What is the value of x?



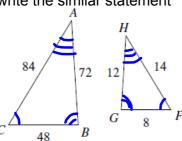


A man 6 ft tall casts a shadow that is 11 ft. 6 in. long. The end of his shadow coincides with the end of the shadow cast by a building 128 ft. from the man. Find the height of the building.

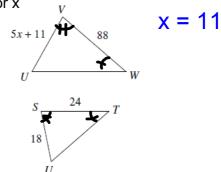


Be careful here. Watch the units. this will be 11.5 ft

Find the scale factor and write the similar statement

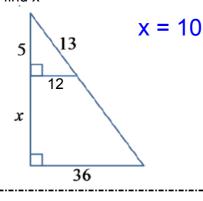


8. solve for x

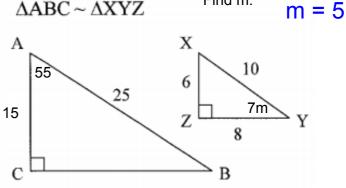


Find m.

9. find x



10 $\triangle ABC \sim \triangle XYZ$



 $\triangle TUV \sim \triangle TMN$



