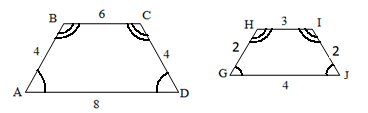
1. Solve for x: 2. Solve for x:

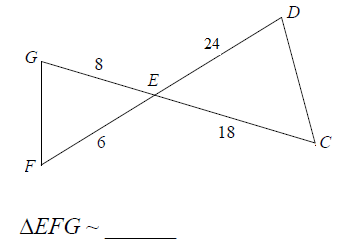
3. If there are 5 boys and 6 girls

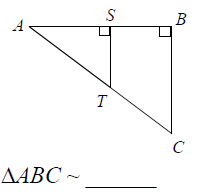
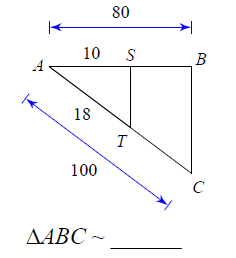
what is the ratio of girls to people?

4. Are these similar?

If yes, find the **scale factor** from ABCD to GHIJ.

Determine if these are similar, if yes, write the similarity theorem, similarity statement and statement of proportionality.



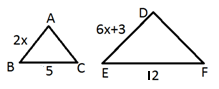
5. 6. 7.

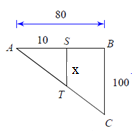
8. A tree casts a shadow that is 10 feet long. The sun comes down at the same angle and makes a 3 foot child cast a shadow that is 2 feet long.

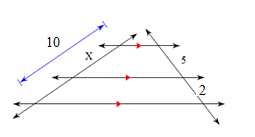
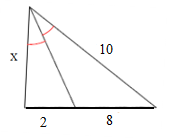
a. Are the triangles formed similar? Why?

b. How tall is the tree?

9. Solve for x.





10. 11. 12.

13.Find the geometric mean of 6 and 4.

14. If the lengths of the sides of two triangles are in the ratio of 2: 7 and the perimeter of the larger triangle is 90 m, find the perimeter of the smaller one.