

7.1 Proportions & Ratios

What is the ratio of boys to girls in this class?

What is the ratio of girls to students in this class?

To solve a proportion, _____

Ex1. Solve

$$\frac{4x-5}{3} = -\frac{26}{6}$$

Ex2. In a triangle, the ratio of measures of 3 sides is 5:12:13 and the perimeter is 90 in. Find the measure of the shortest side.

7.2 Similar Figures

Similar Figures have same _____, but may be different _____.

Similar figures must have: 1) _____ corresponding angles AND

2) sides that are _____ (same _____).

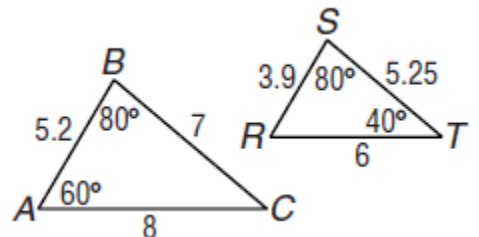
The ratio of sides is called the _____.

Are congruent figures also similar?

Ex 2: Determine if the triangles are similar.

Are corresponding angles equal?

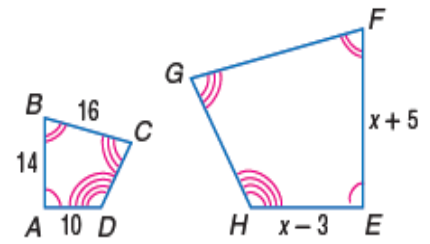
Are corresponding sides proportional?



Similarity statement:

Ex3

a). Find x .



b). Find the scale factor.

c). Find GF .

Ex4 Rectangle QRST is similar to rectangle JKLM with a scale factor of 1.5. If the length and width of rectangle QRST are 10 cm and 4cm, what are the length and width of rectangle JKLM?