<u>Similarity.</u>

You should be able to: Find the ratio of sides of similar shapes. Find the ratio of areas of similar shapes.

Shapes are congruent when they are exactly identical.



These two shapes are congruent.

Shapes are **similar** when they have the same general shape, but one is smaller than the other and the dimensions are different by the exact same scale factor.





These two shapes are similar, because the one on the right its dimensions multiplied by the exact same scale factor.





These two shapes are not similar since the dimensions have been multiplied by different values, therefore giving a distorted shape.

Example 1. Find the length of side x.





