

Stretching and Shrinking

Investigation 1 Big Ideas

What does it mean to be similar? This definition will build throughout the unit.

When two shapes have the same shape, but they are different in size. Corresponding Angles are the congruent.

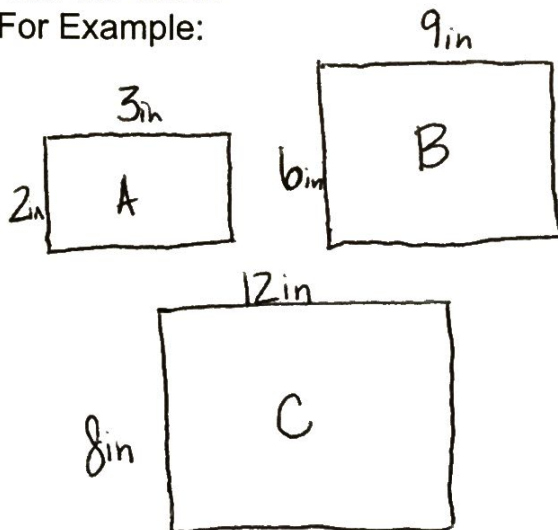
Review of Percents

Percent is a part out of a whole relationship.
 Per-cent- means per 100.
 200% is 2 times bigger
 50% is $\frac{1}{2}$ as big
 150% is 1.5 times bigger.

How can you figure out what percent was used to enlarge or reduce an image in a copier?

If the new copy is Larger than the Percentage typed in copier was greater than 100%
 If the new copy is smaller, than the percentage used was less than 100%.
 Use corresponding sides/measurements to determine how many times larger one object is than the other.

For Example:



From B to C
 B is original (whole)
 C is image (part)

$$\frac{8}{6} = \frac{4}{3} = 1\frac{1}{3} = 133\%$$

From A to B
 A is original (whole)
 B is image (part)

$$\frac{6}{2} = 3 = 300\%$$

From C to A
 C is original (whole)
 A is image (part)


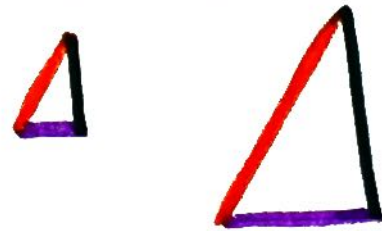
$$\frac{2}{8} = \frac{1}{4} = 25\%$$

From B to A
 B is original (whole)
 A is image (part)

$$\frac{3}{9} = \frac{1}{3} = 33\%$$

Unit: **Stretching & Shrinking**

← Investigation 1

Keyword	Definition	Illustration
Scale Drawing	an image of a figure that is similar to the original. Either enlarged or reduced	
Image	The new figure that results from some transformation	
Corresponding Sides	Sides in the same position in a similar figure	
Corresponding angles	Angles in the same position in a similar figure	