Words to Review

Give an example of the vocabulary word.

Ratio

$$\frac{4}{3}$$
 or 4:3

Proportion

$$\frac{x}{4} = \frac{3}{12}$$

Means

The means of
$$\frac{a}{b} = \frac{c}{d}$$
 are b and c .

Extremes

The extremes of
$$\frac{a}{b} = \frac{c}{d}$$
 are a and d .

Geometric mean

The geometric mean of two positive numbers a and b is the positive number x that satisfies

Scale drawings

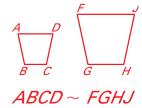
A scale drawing is a drawing that is the same shape as the object it represents.

A map is an example of a scale drawing.

Scale

The scale of a map is 1 inch to 25 miles.

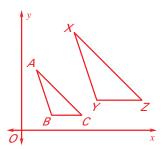
Similar polygons



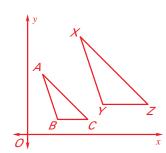
Scale factor of two similar polygons

The scale factor of ABCD to FGHJ is $\frac{1}{2}$.

Dilation

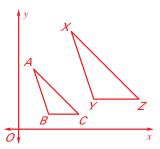


Center of dilation



The center of dilation is (0, 0).

Scale factor of a dilation



The scale factor of the dilation is $\frac{XY}{AB}$.

Reduction

A dilation with a scale factor greater than 0 and less than 1 is a reduction.

Enlargement

A dilation with a scale factor greater than 1 is an enlargement.

Review your notes and Chapter 6 by using the Chapter Review on pages 418-421 of your textbook.