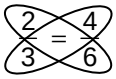
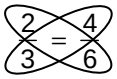
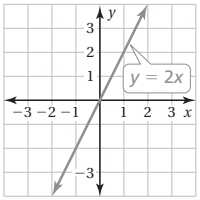
Vocabulary Flash Cards

complex fraction *Chapter 5*	**constant of proportionality** *Chapter 5*
cross products *Chapter 5*	**Cross Products Property** *Chapter 5*
direct variation *Chapter 5*	**proportion** *Chapter 5*
proportional *Chapter 5*	**rate** *Chapter 5*

Vocabulary Flash Cards

The number k in the direct variation equation $y = kx$ The constant of proportionality in the equation $y = 2x$ is 2.	A fraction that has at least one fraction in the numerator, denominator, or both $\frac{\frac{1}{4}}{\frac{1}{2}}$
The cross products of a proportion are equal.  $2 \bullet 6 = 3 \bullet 4$	In the proportion $\frac{a}{b} = \frac{c}{d}$, the products $a \bullet d$ and $b \bullet c$ are called cross products.  $2 \bullet 6$ and $3 \bullet 4$
An equation stating that two ratios are equivalent $\frac{3}{4} = \frac{12}{16}$	Two quantities x and y show direct variation when $y = kx$, where k is a number and $k \neq 0$. The graph of $y = kx$ is a line with a slope of k that passes through the origin. 
A ratio of two quantities with different units You read 3 books every 2 weeks.	Two quantities that form a proportion are proportional. Because $\frac{3}{4}$ and $\frac{12}{16}$ form a proportion, $\frac{3}{4}$ and $\frac{12}{16}$ are proportional.

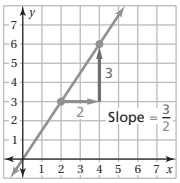
Vocabulary Flash Cards

ratio *Chapter 5*	**slope** *Chapter 5*
unit rate *Chapter 5*	

Vocabulary Flash Cards

A ratio of the change in y (vertical change) to the change in x (horizontal change) between any two points on a line; It is a measure of the steepness of a line.

$$\text{slope} = \frac{\text{change in } y}{\text{change in } x}$$



A comparison of two quantities using division; The ratio of a to b $(\text{where } b \neq 0)$ can be written as a to b, $a : b$, or $\frac{a}{b}$.

4 to 1, 4 : 1, or $\frac{4}{1}$

A rate with a denominator of 1

The speed limit is 65 miles per hour.