

Math

Common Core State Standards

7th Grade

Proportions, percents, integer operations, linear equations, inequalities, geometry, probability & more!

RATIOS & PROPORTIONS

Ratios: A comparison of two numbers or measurements

Ratio: A ratio in which the two terms are in different units

Unit rate: A rate that is expressed as a quantity of one (for example, miles per hour)

EX: Bill ran 10 laps around the high school track in 12 minutes. How many laps can he run in 45 minutes? First, find the unit rate:

$$\frac{10 \text{ laps}}{12 \text{ minutes}} = \frac{5}{6} \text{ laps per minute}$$

Bill can run $\frac{5}{6}$ laps per minute. Use the unit

rate to solve: $\frac{5}{6} \times 45 = \frac{225}{6} = 37.5$ laps

Bill can run 37.5 laps in 45 minutes.

Proportions: Two equal ratios

EX: Solve for n to complete the proportion.

$$\begin{aligned} \frac{6}{15} &= \frac{n}{25} \\ (15)(n) &= (6)(25) \\ 15n &= 150 \\ \frac{15n}{15} &= \frac{150}{15} \\ n &= 10 \end{aligned}$$

EX: Tory accumulated 6 vacation days after working for 9 months. How many vacation days will Tory have after working for 2 years?

$$\begin{aligned} \frac{6}{9} &= \frac{x}{24} \\ 9x &= 144 \\ \frac{9x}{9} &= \frac{144}{9} \\ x &= 16 \end{aligned}$$

Tory will have 16 vacation days after working for 2 years.

Tip! Use the unit rate to make sure that the units convert correctly, too!

Proportional Relationships among Quantities

Ratios of input and corresponding output values are proportional

y	1	2	3	4	5	6
x	2	4	6	8	10	12

$\frac{y}{x}$	$\frac{1}{2}$	$\frac{2}{4}$	$\frac{3}{6}$	$\frac{4}{8}$	$\frac{5}{10}$	$\frac{6}{12}$
x	2	4	6	8	10	12

Constant of proportionality: $y = kx$; y varies in direct proportion to x , and k is the constant of proportionality

EX: At a constant speed, a car travels 50 meters in 2 seconds. How long would it take the car to travel 375 meters?

Elapsed Time	Distance Traveled	Speed (Ratio in m/s)
1 second	25 meters	25
2 seconds	50 meters	25
3 seconds	75 meters	25

Time (t) and distance (d) are directly proportional
 $\frac{d}{t} = \text{constant } (k)$

25 meters per second is the constant speed

$$y = kx$$

$$375 = 25x$$

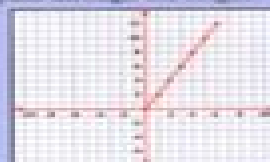
$$\frac{375}{25} = \frac{25}{25}x$$

$$15 = x$$

It will take the car 15 seconds to travel 375 meters.

Tip!

The graph of a directly proportional relationship will always be a straight line and must pass through the origin.



Percent Problems

Formula: $\frac{\text{percent}}{100} = \frac{\text{part}}{\text{whole}}$

EX: Within the past year, 25% of the 16 stores in a mall have closed. How many stores closed in the mall?

$$\begin{aligned} \frac{25}{100} &= \frac{x}{16} \\ 100x &= 400 \\ \frac{100x}{100} &= \frac{400}{100} \\ x &= 4 \end{aligned}$$

Four stores closed in the mall during the past year.

Gratuities

EX: A group of friends went out to dinner. Their bill was \$233. They want to leave an 18% tip for the waiter. How much money should they leave for the tip?

$$\begin{aligned} \text{Use a proportion: } \frac{18}{100} &= \frac{x}{233} \\ 100x &= 4194 \\ \frac{100x}{100} &= \frac{4194}{100} \\ x &= 41.94 \end{aligned}$$

The friends should leave a tip of \$41.94.

Percent Increase or Decrease

EX: The dues in a neighborhood increased from \$24 per month to \$30 per month. Find the percent of increase.

Subtract to find the amount of increase:

$$30 - 24 = 6$$

Use a proportion:

$$\begin{aligned} \frac{\text{difference}}{\text{original amount}} &= \frac{x}{100} \\ \frac{6}{24} &= \frac{x}{100} \\ 24x &= 600 \\ \frac{24x}{24} &= \frac{600}{24} \\ x &= 25 \end{aligned}$$

There was a 25% increase.

EX: Between 3:00 p.m. and 6:00 p.m., the temperature dropped from 88 degrees to 60 degrees. Find the percent of decrease.

Subtract to find the amount of decrease:

$$88 - 60 = 28$$

Use a proportion:

$$\begin{aligned} \frac{28}{88} &= \frac{x}{100} \\ 88x &= 2800 \\ \frac{88x}{88} &= \frac{2800}{88} \\ x &= 31.8 \end{aligned}$$

The temperature decreased by about 31.8%.

Simple Interest

EX: Carmen earns 3% a year on money in her savings account. She had \$354 in her account all year. How much interest did she earn?

$$\begin{aligned} \frac{3}{100} &= \frac{x}{354} \\ 100x &= 1062 \\ \frac{100x}{100} &= \frac{1062}{100} \\ x &= 10.62 \end{aligned}$$

Carmen earned \$10.62 in interest.

Tip!

You can also use the formula $i = prt$, where:
 i = total interest paid
 p = principal (money saved)
 r = rate (percent rate)
 t = time, expressed in years

For the previous example,
 $i = \$354 \times .03 \times 1 = \10.62

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Xiaolong Qi



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