

# Math

## Common Core State Standards

# 7th Grade

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

### RATIOS & PROPORTIONS

**Ratio:** A comparison of two numbers or measurements.

**Rate:** 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:

$$\frac{10 \text{ laps}}{12 \text{ min}} = \frac{5}{6} = 0.8\overline{3} \text{ laps/min}$$

Bill can run approximately 0.83 laps per minute. Use the unit rate to solve:

$$0.8\overline{3} \times 45 \text{ min} = 37.5 \text{ laps}$$

Bill can run approximately 37.4 laps in 45 minutes.

**Proportions:** Two equal ratios.

**EX:** Solve for  $x$  to complete the proportion.

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

**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

Variables increase proportionally.

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

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

**EX:** In 2 seconds, a car travels 50 meters at a constant speed. 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.

$$\frac{d}{t} = \text{constant (R)}$$

25 meters per second is the constant speed.

$$\begin{aligned} y &= kx \\ 375 &= 25x \\ \frac{375}{25} &= \frac{25x}{25} \\ 15 &= x \end{aligned}$$

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.



### Percents 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 will leave a tip of \$41.94.

### Percents 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:  
 $30 - 24 = 6$

Create 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:  
 $88 - 60 = 28$

Create 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 fell 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 the same unit as the rate

For the previous example,  
 $i = \$354 \times 0.03 \times 1 = \$10.62$

# Math Common Core 7th Grade Quick Study Academic

**Schyrlet Cameron, Carolyn Craig**



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