

In the 2000 season, Alex Rodriguez, then of the Seattle Mariners, got 175 hits in 554 at-bats. What was the ratio of hits to at-bats? Of at-bats to hits?

If an object travels 443 meters in 48 seconds, find its rate.

$$\text{Solve: } \frac{\frac{2}{7}}{\frac{3}{4}} = \frac{5}{y}$$

$$\text{Solve: } \frac{t}{6.76} = \frac{12.4}{10.4}$$

An 8-lb turkey breast contains 36 servings of meat. How many pounds of turkey breast would be needed for 54 servings?

In Michigan, there are 2.3 lawyers for every 1000 people. The population of Detroit is 4,307,000. How many lawyers would you expect to be in Detroit?

A birdhouse built on a pole that is 3 m high casts a shadow 5 m long. At the same time, the shadow of a tower is 110 m long. How high is the tower?

Determine whether the two pairs of numbers are proportional.  
1.3, 3.4 and 5.6, 15.2

Write the percent in decimal notation: 0.001%

Find the percent notation: 3

Find the percent notation:  $1\frac{2}{3}$

Find fraction notation. Simplify if possible:  $25\frac{3}{8}\%$

What percent of 15 is 60?

56.32 is 64% of what?

What is  $33\frac{1}{3}\%$  of 480?

A Sharp Portable DVD video player has a retail price of \$1,499.95. Amazon.com offers it on its Web site at a sale price of \$899.88. What is the percent of decrease?

Bonnie earns \$280.80 selling \$2,340 worth of tee shirts. What is the commission rate?

The sales tax on the purchase of a new boat is \$112 and the sales tax rate is 2%. Find the purchase price.

You invest \$5,200 at 6% simple interest. How much is in the account after 6 months?

The Suarez family invests \$10,000 at an annual interest rate of 9%, compounded monthly. How much is in the account after 3 years?  $A = P \left(1 + \frac{r}{n}\right)^{nt}$

A student eats 3 hamburgers in 15 minutes. What is the rate in hamburgers per minute? In minutes per hamburger?

Determine whether the two pairs of numbers are proportional:

7, 3 and 21, 9

Solve:  $\frac{7}{\frac{1}{4}} = \frac{28}{x}$

Solve:  $\frac{x}{3} = \frac{0}{9}$

Jean bought a new car. In the first 8 months, it was driven 9000 miles. At this rate, how many miles will the car be driven in 1 year?

To determine the number of trout in a lake, a conservationist catches 112 trout, tags them, and throws them back into the lake. Later, 82 trout are caught, and it is found that 32 of them are tagged. Estimate how many trout there are in the lake.

How high is a flagpole that casts a 42-ft shadow at the same time that a 5-ft woman casts a 7-ft shadow?

A watch loses 2 min in 10 hr. At this rate, how much will it lose in 24 hr?

Write the percent in decimal notation: 0.09%

Find the percent notation: 0.889

Find the percent notation:  $\frac{5}{6}$

Find fraction notation. Simplify if possible:  $48\frac{7}{8}\%$

\$16 is what percent of \$90?

70% of what is 14?

What is 62 % of 40?

A person earns \$20,400 one year and receives an 8% raise in salary. What is the new salary?

Donna earns \$408 selling \$3400 worth of shoes. What is the commission rate?

The sales tax on a portable CD player is \$66 and the sales tax rate is 5.5%. Find the purchase price.

The population of a small mountain town increased from 840 to 882. What was the percent of increase?

Sal's Laundry borrows \$8000 at 10% simple interest for 90 days. Find (a) the amount of interest due and (b) the total amount that must be paid after 90 days.