Accelerated Math Using Percent Equations Section 6-3

A percent equation is an equivalent form of a percent proportion in which the percent is written as a decimal.

2 is 17% of what number?

Let n = the # (that represents the whole)

Part = Percent(written as a decima) times Whole

2 = 0.17 (n)

Then solve the equation

62% of 75 is what number?	64 is what percent of 90	number?
Let n = the number	Let n = % written as a decimal 64 = n(90)	Let n = the number
0.62(75) = n	64 = n(90)	24 = 0.36n
46.5 = n	90 90 0.71 = n	$\frac{24}{0.36} = \frac{0.36n}{0.36}$
	71.1 %	66.5 = n
	Show work like th	is

A model is 0.25% of the actual size. If the model is 15 inches long, what is the actual size in feet?

Let n = the actual size (in feet) 15 inches = 1.25 feet

Model length = 0.25% of actual size.

1.25 = .0025n

An item is on sale for 40% off of its regular price of \$56. Find its sale price.

Let n = the sale price

40% off means you pay 60%

The sale price is 60% of the regular price.

$$n = 0.6(56)$$

$$n = 33.6$$

A car costs \$30,000. Sales tax is 6%. Find the total price of the car including tax.

Let n = total price of car (including tax)

The total price is 106% of the price of the

$$n = 1.06(30,000)$$
 $n = 31800$

$$n = 31800$$

\$31,800

Meg is getting a raise on her monthly salary of \$4200. Her new salary will be \$4389 per month. Find the percent of her raise.

Let n = percent raise written as a decinal

Her raise is what percent of her original salary.

$$\frac{189}{4200} = \frac{4200}{4200}$$