

Percent of a Number

What is a percent?	A percent is a part of 100.
How do I find a percent of a number?	There are 2 ways to find the percent of a number. 1) set up and solve a proportion 2) convert percent to a decimal and multiply
Example 1: Using a proportion	Find the 67% of 90 First set up a proportion with 67 as the numerator and 100 as the denominator. Since we want to find part of 90, then 90 represents the 100% of the other ratio. $\frac{67}{100} = \frac{x}{90}$ *important to note that when using a proportion, the % sign is no longer needed* After solving the proportion, $x = 60.3$ therefore 67% of 90 is 60.3.
Does my answer make sense?	Since 67% is more than half, we should expect an answer more than half of 90 (which is 45). Also, since 90 is close to 100, we should also expect an answer close to 67.
Example 2: Using a proportion	Find 145% of 210 Just like in example 1, set up a proportion with the percent out of 100, and the 210 as the other denominator. After setting up the proportion, solve to find x. $x = 304.5$ therefore 145% of 210 is 304.5. Does your answer make sense? How do you know?
Example 3: Using decimals equivalents	Find 8% of 50 First convert 8% to a decimal. Then multiply the decimal by 50. $8\% = 0.08.$ $0.08 \cdot 50 = 4$ 8% of 50 is 4.

