

Review: Decimals and Percent

A percent is a fraction out of 100. For example a mark of 86% on a test is the equivalent of 86 out of 100.

To change a percent into a decimal, simply divide the number by 100.

Example: What is 67% as a decimal?

To change a decimal into a percent, multiply the decimal by 100

Example what is 0.76 as a percent?

To change a fraction to a decimal or percent, divide the numerator by the denominator and multiply by 100.

Example What percent is $\frac{3}{5}$

HINT: When multiplying by 100 move the decimal two places to the right. When dividing by 100 move the decimal two places to the left.

Practice 1:

1. Write each percent as a decimal

a. 25%

b. 7%

c. 15%

d. 1.5%

e. 47%

f. 12.5%

g. 150%

h. 0.2%

i. 200%

2. Write each decimal as a percent

a. 0.65

b. 0.04

c. 0.12

d. 0.055

e. 0.1

f. 0.002

3. Write each fraction as a decimal and percent.

a. $\frac{2}{5}$

b. $\frac{5}{8}$

c. $\frac{1}{3}$

d. $\frac{4}{3}$

e. $\frac{5}{7}$

f. $\frac{3}{9}$

Calculating percentages. To find a percent of a number either convert the percent to a decimal and multiply or use proportional reasoning

Example: Find 20% of 45

Solution A – Convert 20% to a decimal and multiply

Solution B – Set up the proportion and solve with cross multiply & divide

Practice 2: Find the percent of each number (round to one decimal place where necessary)

a. 15% of 300

b. 45% of 1500

c. 140% of 170

d. 0.3% 175

e. 80% of 50

f. 10% of 65

g. 200% of 50

h. 25% of 700