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?

move decimal LEFT

To change a decimal into a percent, multiply the decimal by 100 Example what is 0.76 as a percent?

move doined RIGHT

To change a fraction to a decimal or percent, divide the numerator by the denominator and multiply by 3:5 = 6.6 -decinal 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

2. Write each decimal as a percent

3. Write each fraction as a decimal and percent.

a.
$$\frac{2}{5}$$
 0.4 = 40%

a.
$$\frac{2}{5}$$
 0.4 = 40% b. $\frac{5}{8}$ 0.625 = 62.5% c. $\frac{1}{3}$ 6.3 = 33%

c.
$$\frac{1}{3}$$
 6.3 \sim 33%.

d.
$$\frac{4}{3}$$
 1.3 = 1337

e.
$$\frac{5}{7}$$
 0.71 = 71%

d.
$$\frac{4}{3}$$
 1.3 = 133% e. $\frac{5}{7}$ 0.71 = 71% f. $\frac{3}{9}$ 0.3 = 33%

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

$$20\% \div 100 = 0.2$$
 $0.2 \times 45 = \boxed{9}$

Solution $B-\mbox{Set}$ up the proportion and solve with cross multiply & divide



20 ×45 = 100 = 19

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

a. 15% of 300

45

b. 45% of 1500



c. 140% of 170 238

d. 0.3% 175



e. 80% of 50 40

f. 10% of 65



g. 200% of 50 (00)

h. 25% of 700

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