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Chapter 7 Section 1 Percent, Decimals, Fractions.

Meaning of Percent: parts per hundred.

Percent to fraction

Drop the percent sign and put the number over 100

Example:

Change 24% to a fraction

$$24\% = \frac{24}{100}$$
 Parts per hundred $\frac{6}{25}$ Reduced.

Example 2: Page 503

Change $14\frac{2}{7}\%$ to a fraction.

$$14\frac{2}{7}\% = \frac{14\frac{2}{7}}{100}$$

$$= \frac{\frac{100}{7}}{100}$$
Mixed to improper
$$\frac{\frac{100}{7} \cdot \frac{1}{100}}{\frac{1}{7 \cdot 100}}$$
Change division to multiplication
$$\frac{100 \cdot 1}{7 \cdot 100}$$
Reduce
$$\frac{1}{7}$$

Example 3:

Change 28.4% to a fraction

$$28.4 \% = \frac{28.4}{100}$$

$$= \frac{28.4 \cdot 10}{100 \cdot 10}$$
Multiply numerator and denominator by 10.
$$= \frac{284}{1000}$$
Reduce
$$= \frac{71 \cdot 4}{250 \cdot 4}$$

$$= \frac{71}{250}$$

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Try: Change to a fraction

b)
$$11\frac{1}{9}\%$$

Change a percent to Decimal:

Drop the percent symbol and move the decimal point two places to the left.

Example 5: page 504

Change $5\frac{1}{2}\%$ to a decimal

$$5\frac{1}{2}\% = 5.5\%$$

 $5\frac{1}{2}\% = 5.5\%$ Change $\frac{1}{2}$ to 0.5

0.055

Drop the % symbol and move the decimal point two places to the left.

Change 24% to a decimal

Drop the % symbol and move the decimal point two places to the left. 24% = 0.24

Try: Change to a decimal

b)
$$6\frac{3}{4}\%$$

Change a Decimal to a Percent:

Move the decimal point two places to the right and add the percent symbol.

Example 6: page 505

Change 0.0725 to a percent

$$0.0725 = 7.25\%$$

Try: Change to a percent

A) 0.525

b) 0.0375

1.025

Change a Fraction to a Percent

Way 1

- 1) Change the fraction to a decimal
- 2) Move the decimal point two places to the right and add a percent symbol.

Example 8: page 506

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Change $\frac{5}{8}$ to a percent

$$\frac{5}{8}$$
 = 0.625 Change the fraction to a decimal by dividing = 62.5 % Move the decimal point two places to the right and add % sign

Way 2

- 1) Write an equivalent fraction with a denominator of 100
- 2) Write the numerator and attach a percent symbol.

Change $\frac{5}{8}$ to a percent

$$\frac{5}{8} = \frac{x}{100}$$
 Write fraction with a denominator of 100

$$8x = 500$$
 means = extremes

$$x = \frac{125}{2}$$
 Divide by 8 and reduce

$$x = 62.5$$
 Change to a decimal

 $\frac{5}{8}$ = 62.5% Add the percent sign.

Try: Change to a percent

a)
$$\frac{4}{9}$$
 b) $\frac{5}{16}$ c) $\frac{4}{13}$ Round to the nearest tenth of a percent