

7-2 Fractions, Decimals, and Percents

To write a percent as a decimal - divide by 100 and remove the percent symbol.

To write a decimal as a percent - multiply by 100 and add a percent symbol.

pg. 337 Study Tip - To divide a number by 100, move the decimal point two places to the left.
To multiply a number by 100, move the decimal point two places to the right.

$$24\% \quad \% \text{ divide by } 100 \quad 24\% = \frac{24}{100} \quad 0.24$$
$$0.05 = \frac{5}{100} = 5\% \quad 0.05$$

$$a.) \quad 16\% = \frac{16}{100} = 0.16 \quad 0.16$$

$$b.) \quad 9\% = \frac{9}{100} = 0.09 \quad 0.09$$

$$1A. \quad 78\% = \frac{78}{100} = 0.78$$

$$1B. \quad 2\% = \frac{2}{100} = 0.02$$

Place Value

$$0. \overset{\times}{\frac{1}{10}} \overset{\times}{\frac{1}{100}} \overset{\times}{\frac{1}{1000}}$$

$$\begin{aligned} \text{a.) } & 0.7\% \\ & \% = \text{divide by } 100 \end{aligned}$$

$$0.\underline{00}7 = 0.007$$

$$\frac{0.7}{100} = \underline{.00}7$$

shortcut
2 spaces left!

$$\text{b.) } 537\% \quad \frac{537}{100}$$

$$\underline{537} = 5.37$$

$$2A.) \quad 126\%$$

$$\frac{126}{100} = \underline{126} = 1.26$$

$$2B.) \quad 0.9\%$$

$$\frac{0.9}{100} = \underline{0.009} \quad 0.009$$

$$a.) 0.2 \times 100$$

$$0.\underline{20} = 20\%$$

$$b.) 3.84 \times 100 = 3.\underline{84} = 384\%$$

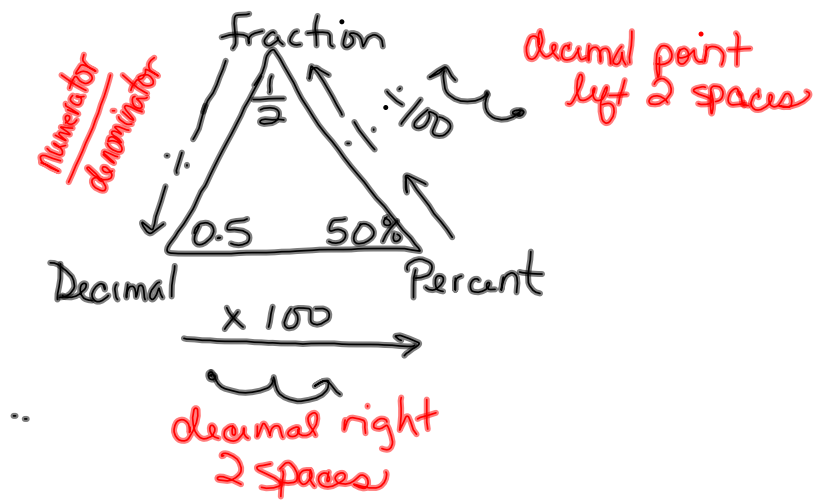
$$c.) 0.005 \times 100 = 0.\underline{005} = 0.5\%$$

3A.) 0.01
decimal as a percent $\times 100 = \underline{\hspace{2cm}}$ add % symbol
0.01 \rightarrow 1.0%

3B.) $3.91 \times 100 = 391 = 391\%$

3C.) $0.002 \times 100 = 0.2\%$

$\frac{1}{2} = 0.5$



$$a.) \frac{5}{8} = 0.625 = 62.5\%$$

$$b.) \frac{7}{9} = 0.7777 = 77.8\%$$

$$c.) \frac{27}{13} = 2.0769 = 207.7\%$$

$$d.) \frac{3}{400} = 0.0075 = 0.75\%$$

$$4A. \frac{27}{40} = 67.5\%$$

$$4B. \frac{1}{9} = 11.1\%$$

$$4C. \frac{1}{250} = 0.4\%$$

$$4D. \frac{17}{11} = 154.5\%$$

Change all to same format.

$$\frac{1}{5} \quad 21\% \quad 0.15 \quad 0.15$$

$$\frac{1}{5} = \frac{20}{100} = 20\% \quad \textcircled{21\%} \quad 15\%$$

5. Fish Ribs Chicken
 $\frac{1}{8}$ 14% 0.12
 largest?

$$\frac{1}{8} = 0.125 = 12.5\%$$

$$0.12 = 12\%$$

14% largest

Assignment

7-2 #10-42

add # 56, 58, 60