

Chapter 2 Lesson 2

Percents and Fractions

Percent- a ratio that compares a number to 100.

75% means 75 out of 100 or $\frac{75}{100}$

Write $\frac{45}{100}$ as a percent: 45%

$$\frac{4}{100} = 4\%$$

Fraction to Percent

- Find an equivalent ratio with 100 as a denominator

Examples:

$$\frac{4}{5} = \frac{80}{100} = 80\%$$

$$\frac{1}{10} = \frac{10}{100} = 10\%$$

$$\frac{19}{20} = \frac{95}{100} = 95\%$$

$$\frac{18}{25} = \frac{72}{100} = 72\%$$

$$\frac{11}{20} = \frac{55}{100} = 55\%$$

$$\frac{1}{4} = \frac{25}{100} = 25\%$$

$$\frac{3}{18} = \frac{1}{6}$$

$$\begin{array}{r} 4 \\ 19 \\ \times 5 \\ \hline 95 \end{array}$$

Percent to Fraction

1. Place percent over 100 to form fraction
2. Simplify (Cake Method)

Examples:

$$25\% = \frac{25}{100}$$

$$\begin{array}{r} 5 \overline{) 25 \quad 100} \\ \underline{5 \quad 20} \\ 1 \quad 4 \end{array} = \left(\frac{1}{4} \right)$$

$$55\% = \frac{55}{100}$$

$$\begin{array}{r} 5 \overline{) 55 \quad 100} \\ \underline{11 \quad 20} \end{array} = \left(\frac{11}{20} \right)$$

$$68\% = \frac{68}{100}$$

$$\begin{array}{r} 2 \overline{) 68 \quad 100} \\ \underline{2 \quad 50} \\ 17 \quad 25 \end{array} = \left(\frac{17}{25} \right)$$

$$30\% = \frac{30}{100}$$

$$\begin{array}{r} 2 \overline{) 30 \quad 100} \\ \underline{5 \quad 50} \\ 3 \quad 10 \end{array} = \left(\frac{3}{10} \right)$$

$$49\% = \frac{49}{100}$$

$$\begin{array}{r} 1 \overline{) 49 \quad 100} \\ \underline{49 \quad 100} \end{array} = \left(\frac{49}{100} \right)$$