

Converting Fractions and Percents

Fractions to Percents:

- * To Convert a Fraction into a percent Change the denominator to 100, do the Same to the Numerator as you did the Denominator. Numerator is your Percent.

$$\frac{2}{5} \xrightarrow{\times 20} \frac{40}{100} = 40\%$$

$$\frac{3}{50} \xrightarrow{\times 2} \frac{6}{100} = 6\%$$

- * Divide The Numerator by the denominator and move the decimal (2) Two decimal Places to the Right.

$$\frac{2}{5} \rightarrow 5 \overline{) 2.0} \begin{array}{r} 0.4 \\ \underline{2.0} \\ 0 \end{array} \quad 0.4 = 40\% \quad \frac{1}{3} \rightarrow 3 \overline{) 1.000} \begin{array}{r} 0.333 \\ \underline{-9.9} \\ 10 \\ \underline{-9} \\ 10 \end{array} \rightarrow 0.333 = 33.3\%$$

Percents to Fractions:

- * Percents are always written over 100 as the denominator! Think 100% Possible on Assessments!
MUST ALWAYS SIMPLIFY! → GCF

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

$$75\% = \frac{75}{100} \div 25 = \frac{3}{4}$$

$$\begin{array}{r} 49 \\ 7 \overline{) 49} \\ \underline{49} \\ 0 \end{array} \quad \begin{array}{r} 100 \\ 2 \overline{) 100} \\ \underline{100} \\ 0 \end{array}$$

$$\begin{array}{r} 75 \\ 3 \overline{) 75} \\ \underline{75} \\ 0 \end{array} \quad \begin{array}{r} 100 \\ 4 \overline{) 100} \\ \underline{80} \\ 20 \\ 5 \overline{) 20} \\ \underline{20} \\ 0 \end{array}$$

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Converting Percents And Decimals

Percent to Decimal:

- * To write a percent as a decimal, divide by 100 and Remove the (%) Percent Sign. This is the Same as moving the decimal Point (2) TWO Places to the LEFT.

$$56\% \rightarrow \frac{56}{100} \rightarrow 0.56$$

$$56\% = 0.56$$

decimal (move 2 dp to left)

$$2\% \rightarrow \frac{2}{100} \rightarrow 0.02$$

$$2\% = 0.02$$

decimal (move 2 dp to left)

Decimals to Percents:

- * to Write a decimal as a percent, Multiply by 100 and add a (%) Percent Sign. This is the Same as moving the decimal Point (2) TWO Places to the RIGHT.

$$0.38 \rightarrow \frac{38}{100} \rightarrow 38\%$$

$$0.38 = 38\%$$

38 hundredths

(move dp 2 to Right)

↑ % always written over 100.

$$0.2 \rightarrow \frac{2}{10}$$

$$\frac{2}{10} \xrightarrow{\times 10} \frac{20}{100} = 20\%$$

$$0.2 = 20\%$$

(move dp 2 to Right)

Set up to 100
to find %

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