

Converting

Fractions, Decimals, and Percentages

Decimal

Fraction

Percentage

convert to

- ① Divide the numerator by the denominator.

$$\begin{array}{r} .25 \\ 4 \overline{)1.00} \\ \underline{-8} \\ 20 \\ \underline{-20} \\ 0 \end{array}$$

$$\frac{1}{4}$$

- ① Divide the numerator by the denominator.

$$\begin{array}{r} .25 \\ 4 \overline{)1.00} \end{array}$$

- ② Multiply by 100 or move the decimal point two places to the right.

$$0.25 \times 100 = 25.00$$

$$\text{or} \\ .25 = 25$$

- ③ Add the percent symbol. 25%

Percentage

Decimal

Fraction

convert to

- ① Multiply by 100 or move the decimal point two places to the right.

$$0.75 \times 100 = 75.00$$

$$\text{or} \\ .75 = 75$$

- ② Add the percent symbol.

$$0.75 = 75\%$$

$$0.75$$

- ① Use the place value of the last digit to the right of the decimal point as the denominator.

$$\text{hundredths} = \frac{x}{100}$$

- ② Remove the decimal point and make that number the numerator.

$$0.75 = \frac{75}{100}$$

- ③ Reduce the fraction to lowest terms.

$$\frac{75}{100} = \frac{3}{4}$$

Fraction

Percentage

Decimal

convert to

- ① Remove the percent symbol and make that number the numerator.

$$\frac{40}{100}$$

- ② Use 100 as the denominator.

- ③ Reduce the fraction to lowest terms.

$$\frac{40}{100} = \frac{2}{5}$$

$$40\%$$

- ① Remove the percent symbol.

$$40$$

- ② Divide by 100 or move the decimal point two places to the left.

$$\frac{40}{100} = 0.40$$

$$40.0\% = 0.40$$