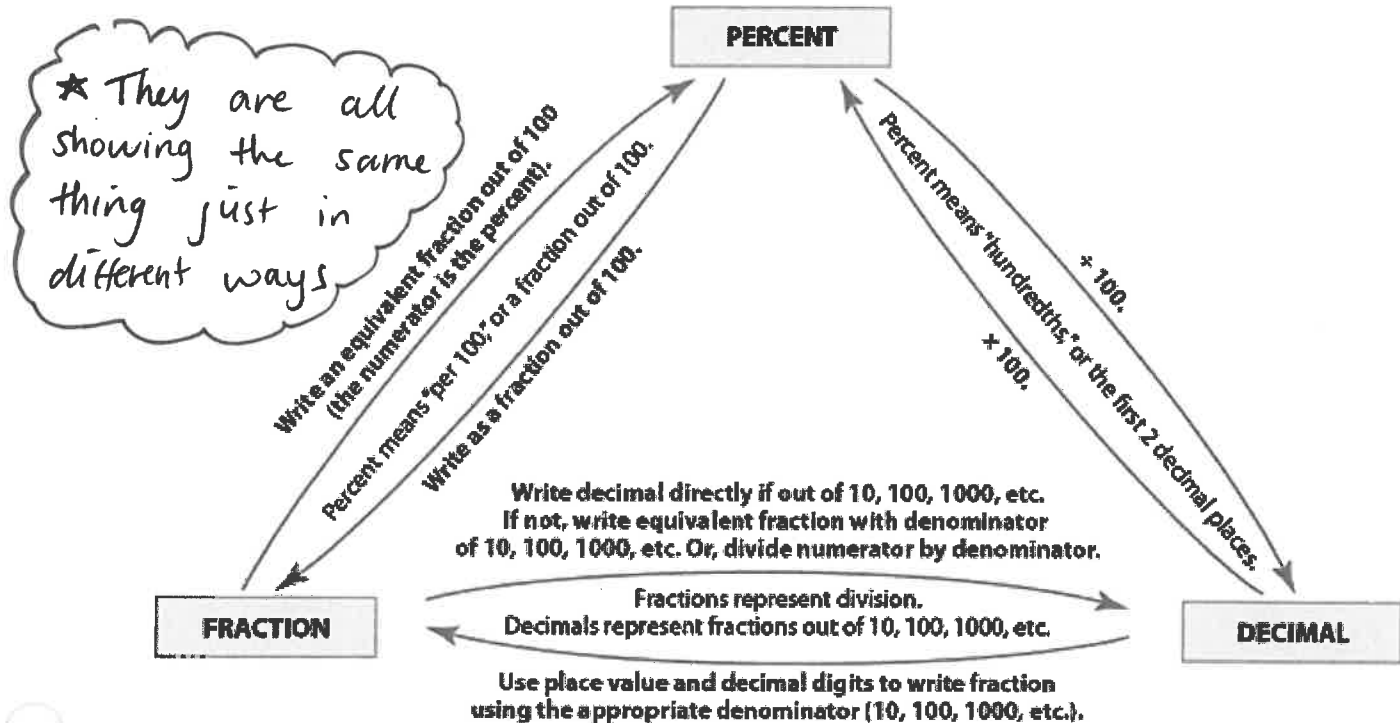


Chapter 8: Percents

Section 8.2 - Percents, decimals, and fractions



Example - Fraction ↔ Percent

Key Points

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

① $\frac{1}{8} \xrightarrow{\times 12.5} \frac{x}{100}$

$100 \div 8 = 12.5$

$x = 12.5$

② $\frac{1}{8} = 1 \div 8$

$= 0.125 \times 100\%$

$= 12.5\%$

- ① • Make an equivalent fraction over 100

OR

- ② • Convert to decimal and multiply by 100%

$$64\% = \frac{16}{25}$$

$$64\% = \frac{64}{100} \xrightarrow{\div 4} \frac{16}{25}$$

- Make fraction out of 100
- Reduce to lowest terms

Example - Percent ↔ Decimal**Key Points**

$$85\% = 0.85$$

$$85\% \div 100\% = 0.85$$

$\frac{85\%}{100\%}$ or 85 hundredths.

$$0.29 = 29\%$$

$$0.29 \times 100\% = 29\%$$

29 hundredths or $\frac{29}{100}$

- Divide by 100%

- Multiply by 100%

Example - Fraction ↔ Decimal**Key Points**

$$\frac{2}{5} = 0.4$$

$$2 \div 5 = 0.4$$

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

$$0.158 = \frac{158}{1000}$$

Thousandths ($\frac{1}{1000}$)

$$\frac{158 \div 2}{1000 \div 2} = \frac{79}{500}$$

- Divide numerator by denominator

- Last digit's place value is denominator
 - Ex. Thousandths

- Remove decimal and number becomes numerator
- Reduce to lowest terms