

Using the percent proportion to find

PART **WHOLE** %

Finding the part: What is 40% of 120?

$$\textcircled{1} \frac{x P}{120 W} = \frac{40\%}{100}$$

$$\textcircled{2} 100x = 120 \cdot 40$$

$$\textcircled{3} \frac{100x}{100} = \frac{4800}{100}$$

$$\boxed{x=48}$$

What is 8.2% of 50?

$$\textcircled{1} \frac{x P}{50 W} = \frac{8.2\%}{100}$$

$$\begin{array}{r} 18.2 \\ \times 50 \\ \hline 410.0 \end{array}$$

$$\textcircled{2} 100x = 50 \cdot 8.2$$

$$\textcircled{3} \frac{100x}{100} = \frac{410}{100}$$

$$\boxed{x=4.1}$$

Finding the whole: 18 is 25% of what number?

$$\textcircled{1} \frac{18 P}{x W} = \frac{25\%}{100}$$

$$\textcircled{2} 25x = 18 \cdot 100$$

$$25x = 1800$$

$$\textcircled{3} \frac{25x}{25} = \frac{1800}{25}$$

$$\boxed{x=72}$$

$$\begin{array}{r} 72 \\ 25 \overline{)1800} \\ \underline{-175} \\ 50 \\ \underline{-50} \\ 0 \end{array}$$

12.5 is 25% of what number?

$$\textcircled{1} \quad \frac{12.5 P}{x W} = \frac{25 \%}{100}$$

$$\textcircled{2} \quad 25x = 12.5 \cdot 100$$

$$\textcircled{3} \quad \frac{25x}{25} = \frac{1250}{25}$$

$$\boxed{x = 50}$$

Finding the Percent

What percent of 15 is 9?

$$\textcircled{1} \quad \frac{9 P}{15 W} = \frac{x \%}{100}$$

$$\textcircled{2} \quad 15x = 9 \cdot 100$$

$$\textcircled{3} \quad \frac{15x}{15} = \frac{900}{15}$$

$$\boxed{x = 60}$$

What percent of 300 is 0.6?

$$\textcircled{1} \quad \frac{0.6 P}{300 W} = \frac{x \%}{100}$$

$$\textcircled{2} \quad 300x = 0.6 \cdot 100$$

$$\textcircled{3} \quad \frac{300x}{300} = \frac{60}{300}$$

$$\boxed{x = .2}$$

$$300 \overline{) 60.0} \quad .2$$