Name: _____

Finding Parts with Percent

Percents show a rate per 100. To find an unknown part with a known whole and percent, set up a proportion of equivalent ratios.

Example: What is 34% of 350?

1. Set up a proportion

$$\frac{34}{100} = \frac{x}{350}$$

2. Cross multiply and solve.

$$\frac{34}{100} = \frac{x}{350} \rightarrow 100x = 11{,}900 \rightarrow 11{,}900 \div 100 = 119$$

$$x = 119$$

34% of 350 is 119.

Note: *Multiplying the known whole by the decimal equivalent of the percent is a shortcut for cross multiplying and solving, e.g., 350 × 0.34 = 119.*

Preview

Please log in to download the printable version of this worksheet.

d. 83% of 600 is...

e. 2% of 236 is...

f. 65% of 777 is...

_____

_____

_____

g. 112% of 75 is...

h. 37% of 240 is...

i. 5% of 520 is...

_____

_____

_____

j. 67% of 89 is...

k. 42% of 350 is...

l. 94% of 875 is...

_____

_____

_____

Finding Parts with Percent

Percents show a rate per 100. To find an unknown part with a known whole and percent, set up a proportion of equivalent ratios.

Example: What is 34% of 350?

1. Set up a proportion

$$\frac{34}{100} = \frac{x}{350}$$

2. Cross multiply and solve.

$$\frac{34}{100} = \frac{x}{350}$$ → $100x = 11{,}900$ → $11{,}900 \div 100 = 119$

$x = 119$

34% of 350 is 119.

Note: Multiplying the known whole by the decimal equivalent of the percent is a shortcut for cross multiplying and solving, e.g., 350 × 0.34 = 119.

Preview

*Please log in to download
the printable version of this worksheet.*