Math 6 Remote Learning Lesson 9 - Percent of a Quantity

Example

What is 8% of 150?

Method 1

150 (100%)

? (8%)
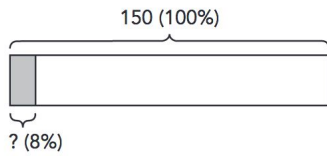
The model shows that:

100% → 150

1% → $\frac{150}{100} = 1.5$

8% → $8 \times 1.5 = 12$

8% of 150 is ___12___.

Method 2

8% of 150 = $\frac{8}{100}$ × 150

= 12

8% of 150 is ___12___.

"of" means "×". In this case, 8% of 150 is the same as 8% × 150.

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1. What is 4% of 250?

Method 1

100% → 250

1% → _____

4% → _____

Method 2

4% of 250 = _____ × _____
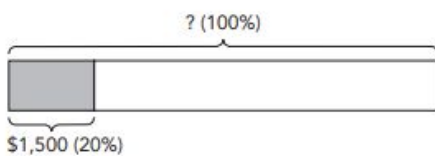
= _____

4% of 250 is _____.

Find the percent of each whole.

3. 35% of 900

4. 115% of $360

Example

Ray spent 20% of his savings to buy a $1,500 computer. How much savings did he have before he bought the computer?

? (100%)

$1,500 (20%)

The model shows that:

20% → $1,500

1% → $\frac{1,500}{20} = \$75$

100% → $100 \times \$75 = \$7,500$

Ray had ___$7,500___ in his savings before he bought the computer.

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11. 40% of a number is 180.

Find the number.

40% → 180

1% → _____

100% → _____

The number is _____.

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13. 25% of _____ is 195.

14. 56% of _____ is 70.

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2. 70 out of 350 calculators at a bookstore are scientific calculators.

a) What percent of the calculators are scientific calculators?

b) What percent of the calculators are not scientific calculators?