Math 6 - Unit 2: Ratios, Rates, Proportions

Homework (Percent of a Number)

Name: _____

Class Period: 1   2   3   4   Date: _____

Example 1

Find 25% of 260.

Method 1:

Write 25% as a fraction in simplest form.
Use the fraction in a multiplication problem.

$$25\% = \frac{25}{10} \text{ or } \frac{1}{4}$$

$$25\% \text{ of } 260 = \frac{1}{4} \times 260$$
$$= 65$$

Method 2:

Write 25% as a decimal.
    Then write a multiplication problem.

$$25\% = 0.25$$

$$25\% \text{ of } 260 = 0.25 \times 260$$
$$= 65$$

Example 2

Find 175% of 56.

Method 1:

Write 175% as a fraction in simplest form.
Use the fraction in a multiplication problem

$$175\% = \frac{175}{100} \text{ or } \frac{7}{4}$$

$$175\% \text{ of } 56 = \frac{7}{4} \times 56$$

$$= \frac{7}{\cancel{4}_{1}} \times \frac{\cancel{56}^{14}}{1}$$

$$= 98$$

So, 175% of 56 is 98.

Method 2:

Write 175% as a decimal.
Then write a multiplication problem.

$$175\% = 1.75$$

$$175\% \text{ of } 56 = 1.75 \times 56$$
$$= 98$$

Exercises

Find the percent of each number.

1. 48% of 50

2. 40% of 95

3. 75% of 116

4. 8% of 85

5. 98% of 30

6. 0.3% of 460

7. 15% of 342

8. 350% of 60

9. 0.25% of 500

10. 2.7% of 110

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Homework (Percent of a Number) **ANSWER KEY**

Name: _____

Class Period: 1   2   3   4   Date: _____

Example 1

Find 25% of 260.

Method 1:

Write 25% as a fraction in simplest form.
Use the fraction in a multiplication problem.

$$25\% = \frac{25}{10} \text{ or } \frac{1}{4}$$

$$25\% \text{ of } 260 = \frac{1}{4} \times 260$$
$$= 65$$

Method 2:

Write 25% as a decimal.
Then write a multiplication problem.

$$25\% = 0.25$$

$$25\% \text{ of } 260 = 0.25 \times 260$$
$$= 65$$

Example 2

Find 175% of 56.

Method 1:

Write 175% as a fraction in simplest form.
Use the fraction in a multiplication problem

$$175\% = \frac{175}{100} \text{ or } \frac{7}{4}$$

$$175\% \text{ of } 56 = \frac{7}{4} \times 56$$

$$= \frac{7}{\cancel{4}_1} \times \frac{\cancel{56}^{14}}{1}$$
$$= 98$$

Method 2:

Write 175% as a decimal.
Then write a multiplication problem.

$$175\% = 1.75$$

$$175\% \text{ of } 56 = 1.75 \times 56$$
$$= 98$$

So, 175% of 56 is 98.

Exercises
Find the percent of each number.

1. 48% of 50 **24**

2. 40% of 95 **38**

3. 75% of 116 **87**

4. 8% of 85 **6.8**

5. 98% of 30 **29.4**

6. 0.3% of 460 **1.38**

7. 15% of 342 **51.3**

8. 350% of 60 **210**

9. 0.25% of 500 **1.25**

10. 2.7% of 110 **2.97**