

1.3 Using Percent

- ▶ Understand and find a percent of a number.
- ▶ Determine what percent one number is of another number.
- ▶ Use percent to represent change.

Finding a Percent of a Number

“Cent” implies 100, as in the word *century*. A **percent** is the number of parts per one hundred.

$$25\% = 0.25 = \frac{25}{100}$$

parts

per

one hundred

Study Tip

To rewrite a percent as a decimal, move the decimal point 2 places to the left.

$25\% = 0.25$

Finding a Percent of a Number

To find a percent of a number, write the percent as a decimal and multiply by the number.

Example: 25% of 60

$$0.25 \times 60 = 15$$

25% of 60

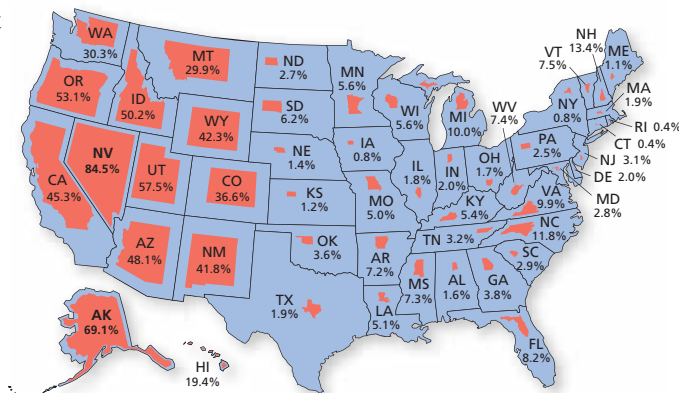
25% of 60

25% of 60

EXAMPLE 1 Finding a Percent of a Number

Percent of Land Owned by the Federal Government	
1. Nevada	84.5%
2. Alaska	69.1%
3. Utah	57.5%
4. Oregon	53.1%
5. Idaho	50.2%
6. Arizona	48.1%
7. California	45.3%
8. Wyoming	42.3%
9. New Mexico	41.8%
10. Colorado	36.6%

The map shows the percent of land in each state that is owned by the federal government. The land area of Nevada is 109,826 square miles. How many square miles of Nevada are owned by the federal government?



SOLUTION

Write 84.5% as a decimal.

$$0.845 \times 109,826 = 92,802.97$$

The federal government owns about 92,800 square miles of Nevada.

✔ Checkpoint

Help at Math.andYOU.com

The land area of Alaska is 571,951 square miles. How many square miles of Alaska are owned by the federal government? Does the federal government own more land in Alaska or in Nevada?