

# Finding a Percent of a Number

Remember that in math, the word *of* means multiply. To find a percent of a number, change the percent to a fraction or to a decimal and then multiply.

**Examples** Find 10% of 300.

Fraction

- Think  $10\% \times 300$
  - Write 10% as a fraction.  $10\% = \frac{1}{10}$
  - Multiply.  $\frac{1}{10} \times 300 = 30$
- 10% of 300 = 30

Decimal

- Think  $10\% \times 300$
  - Write 10% as a decimal.  $10\% = 0.10$
  - Multiply.  $0.10 \times 300 = 30$
- 10% of 300 = 30

## PRACTICE

Find each percent. Be sure to label answers for money problems with a dollar sign and to have the correct number of decimal places.

- |                         |   |
|-------------------------|---|
| 1. 50% of 70 = _____    | 10. 12% of 65 = _____   |
| 2. 25% of \$80 = _____  | 11. 0.5% of 25 = _____  |
| 3. 10% of 50 = _____    | 12. 0.01% of 50 = _____   |
| 4. 75% of 40 = _____    | 13. There are 35 people on a committee. To be elected as chairperson, a person must win the votes of 60 percent of the people on the committee. How many votes must a person receive to be elected chairperson? |
| 5. 15% of 85 = _____    | 14. Helen does not want to spend any more than 30% of her income on rent. Her income is \$2,300 a month. What is the highest monthly rent Helen should pay?   |
| 6. 8% of \$600 = _____  |   |
| 7. 100% of \$35 = _____ |   |
| 8. 20% of 45 = _____    |   |
| 9. 5% of 20 = _____     |   |

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**Examples** Find 10% of 300.

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## PRACTICE

Find each percent. Be sure to label answers for money problems with a dollar sign and to have the correct number of decimal places.

1. 50% of 70 =  $.5 \times 70$  35

2. 25% of \$80 =  $.25 \times 80$  \$20

3. 10% of 50 =  $.1 \times 50$  5

4. 75% of 40 =  $.75 \times 40$  30

5. 15% of 85 =  $.15 \times 85$  12.75

6. 8% of \$600 =  $.08 \times 600$  \$48

7. 100% of \$35 =  $1 \times 35$  \$35

8. 20% of 45 =  $.2 \times 45$  9

9. 5% of 20 =  $.05 \times 20$  1

10. 12% of 65 =  $.12 \times 65$  7.8

11. 0.5% of 25 =  $.005 \times 25$  .125

12. 0.01% of 50 =  $.0001 \times 50$  .005

13. There are 35 people on a committee. To be elected as chairperson, a person must win the votes of 60 percent of the people on the committee. How many votes must a person receive to be elected chairperson?

$.6 \times 35 = 21$

14. Helen does not want to spend any more than 30% of her income on rent. Her income is \$2,300 a month. What is the highest monthly rent Helen should pay?

$.3 \times 2300 = 690$

PERCENTS