2-8 Exercises

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GUIDED PRACTICE

1. **Vocabulary** In your own words, write a definition of *percent*.

SEE EXAMPLE 1
p. 127

2. Find 75% of 40.
3. Find $12\frac{1}{2}$% of 168.
4. Find 115% of 57.
5. Find 70% of 8.

SEE EXAMPLE 2
p. 128

6. What percent of 40 is 25?
7. What percent of 225 is 180?
8. 57 is what percent of 30?
9. 1 is what percent of 8?

SEE EXAMPLE 3
p. 128

10. 28 is 32% of what number?
11. 4% of what number is 7?
12. 16 is 10% of what number?
13. 105% of what number is 37.8?

SEE EXAMPLE 4
p. 129

14. **Nutrition** A certain granola bar has 2 grams of fiber. This is 8% of the recommended daily value. How many grams of fiber are recommended daily?

PRACTICE AND PROBLEM SOLVING

Independent Practice

For Exercises	See Example
15–18	1
19–22	2
23–26	3
27	4

Extra Practice
Skills Practice p. S7
Application Practice p. S29

Find each value. Round to the nearest tenth if necessary.

15. 60% of 80
16. 35% of 90
17. $\frac{1}{2}$% of 500
18. 210% of 30

19. What percent of 52 is 13?
20. What percent of 9 is 27?

21. 11 is what percent of 22?
22. 5 is what percent of 67?

23. 36 is 90% of what number?
24. 8.2 is 2% of what number?

25. $4\frac{1}{2}$% of what number is 23?
26. 16% of what number is 94?

27. **Nutrition** A certain can of iced tea contains 4% of the recommended daily allowance of sodium. The recommended daily allowance is 2500 milligrams. How many milligrams of sodium are in the can of iced tea?

Write each decimal or fraction as a percent.

28. $\frac{5}{4}$
29. 0.02
30. 0.27
31. $\frac{2}{25}$
32. $\frac{7}{7}$

33. 0.64
34. $\frac{31}{100}$
35. 0.85
36. 0.003
37. $\frac{17}{20}$

Write each percent as a decimal and as a fraction.

38. 23%
39. 52%
40. 12.5%
41. 90%
42. 87.2%

43. 112%
44. 29%
45. 6%
46. 1.5%
47. $\frac{3}{5}$%

48. **Estimation** To estimate 26% of 400, think:

$$26\% \text{ is close to } 25\% \text{ and } 25\% = \frac{1}{4}$$

$$\frac{1}{4} \text{ of } 400 = 100.$$

Therefore, 26% of 400 is about 100.

Use a similar method to estimate 48% of 610 and 73% of 820. Then check your estimates by finding each percent.