

SKILL 15: Percents Greater Than 100 or Less Than 1

Mr. Lockwood's class at Kendall School is collecting aluminum cans to recycle. The goal is to collect 500 cans. So, 500 represents 100% of their goal.

Percents can be less than 1% or greater than 100%.

Example 1

On the first day, one student brought 3 cans. Write 3 out of 500 as a percent.

$$\frac{3}{500} = \frac{3 \div 5}{500 \div 5} = \frac{0.6}{100} = 0.6\%$$

Read: 6 tenths percent.

0.6% is less than 1% of the goal.

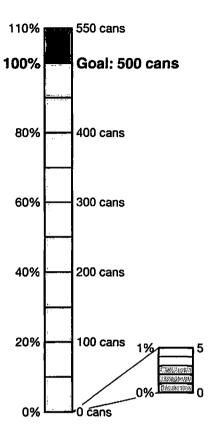
Example 2

By the end of the second week, the students had collected 550 cans. Write 550 as a percent of 500.

$$\frac{550}{500} = \frac{550 \div 5}{500 \div 5} = \frac{110}{100} = 110\%$$

Read: one hundred ten percent

Notice that 110% is more than 100% of the goal.



Guided Practice

Write each fraction, mixed number, or whole number as a percent.

1.
$$\frac{2}{400} = \frac{2 \div 4}{400 \div 4} = \frac{0.5}{100} =$$

1.
$$\frac{2}{400} = \frac{2 \div 4}{400 \div 4} = \frac{0.5}{100} =$$
 2. $2\frac{1}{2} = \frac{5}{2} = \frac{5 \times 50}{2 \times 50} = \frac{250}{100} =$

3.
$$\frac{16}{500} = \frac{16 \div 5}{500 \div 5} = \frac{3.2}{100} =$$

4.
$$4 = \frac{4}{1} = \frac{4 \times 100}{1 \times 100} = \frac{400}{100} = \frac{400}{100}$$

Write each decimal as a percent. (Hint: When you multiply by 100, move the decimal point two places to the right.)

Write each percent as a decimal.

10.
$$0.3\% = 0.3 \div 100 =$$

Find each percent.

$$0.009 \times 120 =$$

$$2.25 \times 40 =$$

@ Prentice-Hall, Inc.

SKILL 15: Practice

Write each percent as a decimal.

1. 0.3% _____

2. 215% _____ **3.** 0.95% ____ **4.** 500% _____

5. 0.7% _____

6. 150% _____ **7.** 625% _____ **8.** 0.03% _____

Write each decimal, fraction, mixed number, or whole number as a percent.

9.
$$1\frac{1}{2}$$

10.
$$3\frac{1}{5}$$

11.
$$\frac{3}{200}$$

12.
$$\frac{50}{1000}$$

Find each answer.

18. 0.4% of 800 = _____

19. 300% of 18 = _____

20. 175% of 4 = _____

21. 0.5% of 600 = _____

Solve each problem.

22. Suppose the goal for Mr. Lockwood's class had been 250 cans. Then 550 cans would have been what percent of the goal?

23. Suppose the goal had been 1,000 cans. Then 550 cans would have been what percent of the goal?

24. Fran said that 150% of the 30 students in Mr. Lockwood's class participated in the can-collecting activity. Is this possible? Explain.

25. Find 180% of 300.

Skill 15

A 5.4

C 54

B 54.000

D 540

26. Which figures appear to be similar? Skill 8



H A and C

G C and D

J B and D