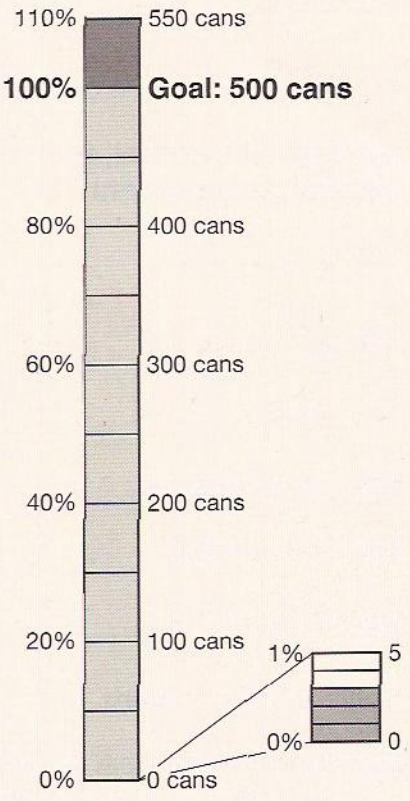
Name _____ Date _____ Class _____

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

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

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

5. 0.004 = _____

6. 2.09 = _____

7. 0.061 = _____

8. 3.57 = _____

Write each percent as a decimal.

9. 240% = 240 ÷ 100 = _____

10. 0.3% = 0.3 ÷ 100 = _____

Find each percent.

11. 0.9% of 120

0.009 × 120 = _____

12. 225% of 40

2.25 × 40 = _____

13. 0.2% of 134

____ × ____ = ____