

Lesson 4-1

Reinforce Understanding

Understand Percent

I can explain a percent as a rate per 100, model it on a decimal grid or tape diagram, and interpret percents greater than 100%.

Worked model

In a survey, 18 out of every 50 sixth graders pack their lunch. What percent pack their lunch?

1. Write the ratio: 18 out of 50.
2. Ask: what times 50 makes 100? $50 \times 2 = 100$
3. Multiply BOTH terms by 2: 18 out of 50 $\rightarrow$ 36 out of 100
4. 36 out of 100 means 36%.

Answer: 36% of the sixth graders pack their lunch.

Practice

Complete each exercise. Show the reasoning that supports your answer.

1. What does the word percent mean?

Circle the letter of the best answer. Show how you know.

- A. Per ten
- B. Per thousand
- C. Per hundred
- D. Per part

Show your work

2. Sort each percent by how it compares to one whole.

Write the name of the correct group on each line.

Groups: Less than one whole More than one whole

- _____ 45%
- _____ 150%
- _____ 99%
- _____ 200%
- _____ 0.5%
- _____ 101%

3. 3 out of every 10 students walk to school. What percent is that?

Circle the letter of the best answer. Show how you know.

- A. 3%
- B. 10%
- C. 13%
- D. 30%

Show your work
