

Lesson 4-1 • Group 2

Reinforce Understanding

4.1 Small Group • Group 2

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%, explain what each part stands for, and build one for a situation I have not seen before.

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. Match each comparison to its percent.

Write the letter of the matching item on each line.

1. _____ 4 out of 10
2. _____ 23 out of 100
3. _____ 1.5 times the whole
4. _____ the whole itself

- A40%
- B23%
- C150%
- D100%

2. Write each ratio as an equivalent ratio out of 100, then as a percent.

Complete the table. Show how you found each value.

Ratio	Out of 100	Percent
4 out of 10	40	40%
7 out of 20		
3 out of 4		

Show your work
