Name_____ Date_____ Period_____

LESSON 4-1 · SESSION 1 · PRACTICE · FORM B

Percent Means Per Hundred

Learning target – I can write a ratio as a percent by finding the equivalent ratio out of 100. · 6.AT.4

REMEMBER

- **Percent** means **per hundred**. The whole is 100%.
- Multiply the part **and** the whole by the same number to make the whole 100.
- Simplify first if needed: 6 out of 15 = 2 out of 5 = 40%. The part and the rest add to 100%.

WORKED EXAMPLE

3 out of 4 students bring lunch. What percent?

Step 1 What times 4 makes 100? 25.

Step 2 3 × 25 = 75 and 4 × 25 = 100.

Step 3 75 out of 100 = 75%.

Answer 75% bring lunch

WORDS **percent** *(por ciento)* · **decimal grid** *(cuadrícula decimal)* · **equivalent ratio** *(razón equivalente)*

PRACTICE

show your work · label units

1. Write each ratio as a percent.

a. 1 out of 4 = ___ %

b. 13 out of 20 = ___ %

c. 29 out of 50 = ___ %

d. 3 out of 5 = ___ %

e. 6 out of 25 = ___ %

f. 19 out of 20 = ___ %

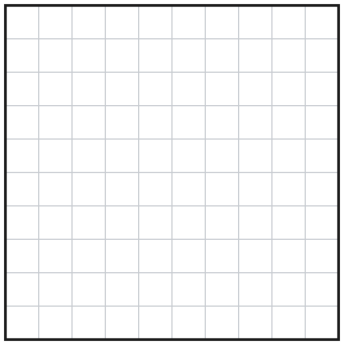
2. **Camp Sign-ups.** Out of every 20 campers: 9 swim, 6 hike, 5 do crafts. Complete the table.

	Swimming	Hiking	Crafts
Out of 20	9	6	5
Percent			

3. **Grid Shading.** Kenji shades 37 squares on this decimal grid. Shade them.

a. Percent shaded: _____ %

b. Shaded amount as a decimal: _____



4. **Coupons.** At a market, 17 out of every 20 shoppers used a coupon.

a. Percent who used one: _____ %

b. Percent who did not: _____ %

Show your work.

5. **Sneaker Survey.** Out of every 50 sixth graders, 27 wear sneakers with laces. What percent is that?

Hint *50 × 2 = 100, so double 27 too.*

Show your work.

Answer_____ %

6. Visitor Claim. Malik says 18 out of every 25 visitors equals 18%. Is he right? Find the true percent.

Hint *25 × 4 = 100. Multiply 18 by 4 too.*

Show your work.

Answer_____ %

7. Quilt Patches. A quilt has 20 patches. 13 are stars; the rest are moons. What percent are moons?

Hint *Find the number of moon patches first.*

Show your work.

Answer_____ %

8. Field Day. Of 40 students, 22 finished the obstacle course and the rest did not.

a. What percent finished? _____ %

b. What percent did not finish? _____ %

c. How can you check both percents without computing them again? _____

Show your work.

FIND THE ERROR

explain the mistake, then fix it

9. Elena's Work. Elena counted 25 seedlings, and 9 of them sprouted. She wrote, "So 9% of the seedlings sprouted." Explain her mistake and find the correct percent.

TEST PRACTICE

choose the best answer

10. 9 out of 20 written as a percent is –

A 9% **B** 45% **C** 29% **D** 11%

11. A percent compares a part to a whole of –

A 10 **B** 1,000 **C** 100 **D** 1

SELF-CHECK CODE

find your answer · copy its letter into that problem's box · spell a math word

35% E	55% D	72% R	90% X	25% H	37% U	18% Q	54% D	7% Z	15% N

#1a	#3a	#4b	#5	#6	#7	#8a

CHECK YOURSELF ☐ I can do this on my own ☐ I need a little help ☐ I have a question about #____