Name_____ Date_____ Period_____

LESSON 4-1 · SESSION 2 · PREREQUISITE PRACTICE B · SKILL 1 OF 2

Write a Ratio as a Percent

Builds on Lesson 4-1 Session 1

TODAY'S LESSON	You will write an amount compared to the whole as a percent, like 90 jumps compared to 50.
YOU NEED TO	Scale a ratio so the whole is 100, like 13 out of 20 = 65%. **You will use it in Practice, problems 3 and 4.**

STEPS TO FOLLOW

use these same steps on every problem

1. Write **amount : whole**.
2. Find the number that makes the **whole 100**.
3. **Multiply** the part by it. That is the percent.

WATCH ME

the steps in action

In a club, 13 out of 20 members play soccer. What percent is that?

Step 1 13 : 20

Step 2 20 × 5 = 100.

Step 3 13 × 5 = 65. That is 65%.

Answer **65%**

TRY IT WITH HELP

fill in each step

1. 7 out of 25 students walk. What percent is that?

Step 1 _____ : 25

Step 2 25 × _____ = 100.

Step 3 7 × _____ = _____. That is _____%.

2. Mia ran 20 laps last week (the whole) and 30 laps this week. Write 30 as a percent of 20.

Step 1 30 : _____

Step 2 _____ × _____ = 100.

Step 3 30 × _____ = _____. That is _____%.

YOUR TURN

use the steps on your own

3. Write each ratio as a percent.

a. 3 out of 10 = ___ %

b. 11 out of 20 = ___ %

c. 1 out of 4 = ___ %

d. 17 out of 50 = ___ %

e. 9 out of 25 = ___ %

f. 60 compared to 50 = ___ %

Use the Bridge Strategy

Builds on Lesson 3-3 Session 2

TODAY'S LESSON	You will scale a ratio like 30 : 12 to a number out of 100 for a seedling's height.
YOU NEED TO	Use a bridge ratio, like 12 : 30 = 2 : 5 = 40 : 100. **You will use it in Practice, problems 3 and 8.**

STEPS TO FOLLOW

use these same steps on every problem

1. **Divide** both terms to get a bridge ratio.
2. Find what times the **bridge whole** makes 100.
3. **Multiply** both terms by that number.

WATCH ME

the steps in action

Find the missing term: 12 : 30 = ___ : 100.

Step 1 Divide by 6: 12 : 30 = 2 : 5.

Step 2 5 × 20 = 100.

Step 3 2 × 20 = 40. So 40 : 100.

Answer **40**

TRY IT WITH HELP

fill in each step

4. Find the missing term: 9 : 15 = ___ : 100.

Step 1 Divide by 3: _____ : 5.

Step 2 5 × _____ = 100.

Step 3 _____ × _____ = _____. So _____ : 100.

5. Find the missing term: 14 : 40 = ___ : 100.

Step 1 Divide by 2: 7 : _____.

Step 2 _____ × _____ = 100.

Step 3 7 × _____ = _____. So _____ : 100.

YOUR TURN

use the steps on your own

6. Find each missing term.

a. 9 : 30 = ___ : 100 **b.** 12 : 16 = ___ : 100 **c.** 27 : 60 = ___ : 100

d. 8 : 32 = ___ : 100 **e.** 33 : 60 = ___ : 100 **f.** 45 : 18 = ___ : 100

READY CHECK

a problem like the one in today's lesson

7. Which ratio is equivalent to 9 : 12?

A 90 : 100 **B** 3 : 100 **C** 75 : 100 **D** 97 : 100

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