Name_____ Date_____ Period_____

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

Write Part-to-Whole Ratios

Builds on Lesson 3-1 Session 1

TODAY'S LESSON	You will find the moon patches when some quilt patches are stars, like 16 of 25.
YOU NEED TO	Write a part-to-whole ratio, like 5 green out of 12 marbles is 5 : 12. **You will use it in Practice, problems 7 and 8.**

STEPS TO FOLLOW

use these same steps on every problem

1 Find the **whole**: the total of all the parts.

2 Find the **part** you need. Subtract if needed.

3 Write **part : whole**.

WATCH ME

the steps in action

A bag has 5 green and 7 yellow marbles. Write green to all marbles.

Step 1 Whole: 5 + 7 = 12.

Step 2 Part: 5 green.

Step 3 5 : 12

Answer **5 : 12**

TRY IT WITH HELP

fill in each step

1. A class has 6 girls and 9 boys. Write girls to all students.

Step 1 Whole: 6 + 9 = _____.

Step 2 Part: _____ girls.

Step 3 _____ : _____

2. Of 20 students, 13 walk to school. The rest ride. Write riders to all students.

Step 1 Whole: _____ students.

Step 2 Part: _____ − 13 = _____ riders.

Step 3 _____ : _____

YOUR TURN

use the steps on your own

3. Write the ratio of girls to all students.

a. 8 girls, 12 boys: _____

b. 11 girls, 14 boys: _____

c. 3 girls, 7 boys: _____

d. 13 girls, 7 boys: _____

e. 24 girls, 26 boys: _____

f. 9 girls, 16 boys: _____

Write Ratios in Simplest Form

Builds on Lesson 3-3 Session 2

TODAY'S LESSON	You will write a ratio like 26 out of 40 in simplest form before you find the percent.
YOU NEED TO	Write a ratio in simplest form, like 24 : 30 = 4 : 5. **You will use it in Practice, problem 8.**

STEPS TO FOLLOW

use these same steps on every problem

1. Find the **GCF** of the two terms.
2. **Divide** both terms by the GCF.
3. **Check**: only 1 divides both new terms.

WATCH ME

the steps in action

Write 24 : 30 in simplest form.

Step 1 The GCF of 24 and 30 is 6.

Step 2 24 ÷ 6 = 4 and 30 ÷ 6 = 5.

Step 3 Only 1 divides 4 and 5. The answer is 4 : 5.

Answer **4 : 5**

TRY IT WITH HELP

fill in each step

4. Write 9 : 12 in simplest form.

Step 1 The GCF of 9 and 12 is _____.

Step 2 9 ÷ _____ = _____ and 12 ÷ _____ = _____.

Step 3 Simplest form: _____ : _____

5. Write 18 : 30 in simplest form.

Step 1 The GCF of 18 and 30 is _____.

Step 2 18 ÷ _____ = _____ and 30 ÷ _____ = _____.

Step 3 Simplest form: _____ : _____

YOUR TURN

use the steps on your own

6. Write each ratio in simplest form.

a. 10 : 12 = _____ **b.** 12 : 40 = _____ **c.** 28 : 35 = _____

d. 14 : 16 = _____ **e.** 27 : 30 = _____ **f.** 30 : 100 = _____

READY CHECK

a problem like the one in today's lesson

7. What is 14 : 40 in simplest form?

A 14 : 4 **B** 7 : 20 **C** 2 : 5 **D** 7 : 10

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