Name_____ Date_____ Period_____

LESSON 3-5 · SESSION 1 · PREREQUISITE PRACTICE B · SKILL 1 OF 2

Scale Ratios to a Target

Builds on Lesson 3-3 Session 2 · 6.RP.A.3a

TODAY'S LESSON	You will scale ratios like 4 : 9 so the first term is 12.
YOU NEED TO	Scale a ratio to a target, like 3 : 4 to 15 : 20. **You will use it in Practice Form A, problems 1 and 4.**

STEPS TO FOLLOW

use these same steps on every problem

1. **Divide**: target ÷ first term = the scale factor.
2. **Multiply** the second term by the scale factor.
3. **Write** the new ratio.

WATCH ME

the steps in action

Scale 3 : 4 so the first term is 15.

Step 1 15 ÷ 3 = 5.

Step 2 4 × 5 = 20.

Step 3 The new ratio is 15 : 20.

Answer 15 : 20

TRY IT WITH HELP

fill in each step

1. Scale 2 : 3 so the first term is 10.

Step 1 10 ÷ 2 = _____.

Step 2 3 × 5 = _____.

Step 3 New ratio: 10 : _____

2. Scale 5 : 6 so the first term is 20.

Step 1 20 ÷ 5 = _____.

Step 2 6 × 4 = _____.

Step 3 New ratio: 20 : _____

YOUR TURN

use the steps on your own

3. Find each missing number.

a. 3 : 5 = 12 : _____

b. 2 : 7 = 12 : _____

c. 6 : 5 = 12 : _____

d. 1 : 9 = 12 : _____

e. 4 : 3 = 20 : _____

f. 10 : 3 = 20 : _____

Interpret Ratio Language

Builds on Lesson 3-1 Session 1 · 6.RP.A.1

TODAY'S LESSON	You will compare 3 cups red to 4 cups blue with 2 cups red to 3 cups blue.
YOU NEED TO	Read a ratio and match each number to its thing, like red is 3. **You will use it in Practice Form A, problems 2 and 3.**

STEPS TO FOLLOW

use these same steps on every problem

1. **Name** each part and its number.
2. **Add** the parts to find the total.
3. Write the ratio in the **order** asked.

WATCH ME

the steps in action

A drink uses 2 scoops of powder for every 5 cups of water. Write powder to total.

Step 1 Powder: 2. Water: 5.

Step 2 Total: 2 + 5 = 7.

Step 3 Powder first, then total: 2 : 7.

Answer 2 : 7

TRY IT WITH HELP

fill in each step

4. Paint uses 3 cups red to 4 cups blue. Write blue to total.

Step 1 Red: _____. Blue: _____.

Step 2 Total: 3 + 4 = _____.

Step 3 Blue to total: _____ : _____

5. A pitcher has 2 cans of juice to 3 cans of water. Write water to juice.

Step 1 Juice: _____. Water: _____.

Step 2 Total: 2 + 3 = _____.

Step 3 Water to juice: _____ : _____

YOUR TURN

use the steps on your own

6. Trail mix has 4 cups of nuts, 3 cups of raisins and 5 cups of oats. Write each ratio.

a. nuts to raisins: _____ **b.** oats to nuts: _____ **c.** raisins to oats: _____

d. nuts to total: _____ **e.** oats to total: _____ **f.** raisins to total: _____

READY CHECK

a problem like the one in today's lesson

7. A smoothie uses 3 cups of fruit for every 2 cups of yogurt. What is the ratio of fruit to total?

A 3 : 2 **B** 2 : 3 **C** 5 : 3 **D** 3 : 5

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