Name_____ Date_____ Period_____

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

Use Tape Diagrams to Compare

Builds on Grade 4 · 4.OA.A.2

TODAY'S LESSON	3 strawberries for every 2 bananas makes 5 boxes. With 20 fruits, each box is 4.
YOU NEED TO	Read a tape diagram: boxes × the value of one box. **You will use it in Practice Form A, problems 2 and 4.**

STEPS TO FOLLOW

use these same steps on every problem

1. **Count** the boxes in each row.
2. Find the **value** of one box.
3. **Multiply** boxes × value for each row.

WATCH ME

the steps in action

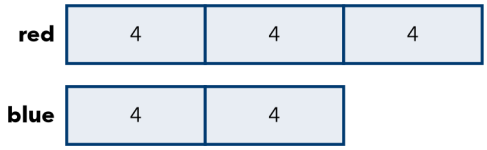
Each box is 4 marbles. Find the red and the blue marbles.

Step 1 Red: 3 boxes. Blue: 2 boxes.

Step 2 One box is 4.

Step 3 3 × 4 = 12 and 2 × 4 = 8.

Answer **12 red and 8 blue**



TRY IT WITH HELP

fill in each step

1. Each box is 5 cups. Find the granola and the cranberries.

Step 1 Granola: _____ boxes. Cranberries: _____ boxes.

Step 2 One box is _____.

Step 3 2 × 5 = _____ and 3 × 5 = _____

2. Cats have 1 box. Dogs have 3 boxes. Each box is 6. Find each.

Step 1 Cats: _____ box. Dogs: _____ boxes.

Step 2 One box is _____.

Step 3 1 × 6 = _____ and 3 × 6 = _____

YOUR TURN

use the steps on your own

3. Find both amounts.

a. A: 2 boxes, B: 5 boxes, 1 box = 3 _____

b. A: 4 boxes, B: 1 box, 1 box = 7 _____

c. A: 5 boxes, B: 3 boxes, 1 box = 4 _____

d. A: 2 boxes, B: 3 boxes, 1 box = 9 _____

Write and Read Ratios

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

TODAY'S LESSON	Goldfish to guppies is 5 to 3, so goldfish get 5 boxes and guppies get 3.
YOU NEED TO	Write a ratio three ways and draw one box for each part, like 5 to 3. **You will use it in Practice Form A, problems 4 and 8.**

STEPS TO FOLLOW

use these same steps on every problem

1. Name the **first** quantity. Its number goes first.
2. **Write** the ratio: a to b, a : b, a/b.
3. Draw one **box** for each part.

WATCH ME

the steps in action

A paint mix uses 4 cups blue for every 1 cup white. Write blue to white.

Step 1 Blue is first: 4.
Step 2 4 to 1, 4 : 1, 4/1.
Step 3 Blue gets 4 boxes. White gets 1 box.
Answer 4 : 1

TRY IT WITH HELP

fill in each step

4. A trail mix uses 2 parts raisins for every 5 parts nuts. Write raisins to nuts.

Step 1 Raisins are first: _____
Step 2 Three ways: _____
Step 3 Raisins get _____ boxes. Nuts get _____.

5. A garden has 5 beans for every 3 corn. Write corn to beans.

Step 1 Corn is first: _____
Step 2 Three ways: _____
Step 3 Corn gets _____ boxes. Beans get _____.

YOUR TURN

use the steps on your own

6. Write each ratio with a colon.

a. 3 cats, 7 dogs: dogs to cats _____
b. 2 red, 9 blue: red to blue _____
c. 5 boys, 4 girls: girls to boys _____
d. 1 adult, 8 kids: kids to adults _____

READY CHECK

a problem like the one in today's lesson

7. Goldfish and guppies are in the ratio 5 to 3. How many boxes does the tape diagram have in all?

A 5 **B** 3 **C** 8 **D** 15

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