

## Lesson 3-5 • Group 2

**Reinforce Understanding****3.5 Small Group • Group 2**

I can compare ratios by finding unit rates or using equivalent ratios, explain how I can tell, and judge a case I have not seen before.

**Worked model**

**Mix P is 2 cocoa to 5 milk. Mix Q is 3 cocoa to 7 milk. Which is more chocolatey?**

1. Pick the quantity to match — cocoa. Find the LCM of 2 and 3  $\rightarrow$  6.
2. Scale Mix P.  $\times 3 \rightarrow$  6 cocoa : 15 milk
3. Scale Mix Q.  $\times 2 \rightarrow$  6 cocoa : 14 milk
4. Same cocoa, so compare the milk. LESS milk = more chocolatey.

**Answer: Mix Q is more chocolatey: for 6 cocoa it has only 14 milk.**

**Practice**

Complete each exercise. Show the reasoning that supports your answer.

**1. Match each scenario to the correct answer: Which ratio is greater?**

Write the name of the correct group on each line.

Groups: Correct Comparison Incorrect Comparison

- \_\_\_\_\_ 5:6 vs. 7:9  $\rightarrow$  5:6 is greater
- \_\_\_\_\_ 2:3 vs. 4:6  $\rightarrow$  they are equal
- \_\_\_\_\_ 1:4 vs. 2:5  $\rightarrow$  2:5 is greater
- \_\_\_\_\_ 3:7 vs. 2:5  $\rightarrow$  2:5 is greater
- \_\_\_\_\_ 4:5 vs. 3:4  $\rightarrow$  3:4 is greater
- \_\_\_\_\_ 1:2 vs. 3:4  $\rightarrow$  they are equal

**2. Two frosting recipes both mix drops of food coloring to make green frosting for a cake. Recipe A: 3 drops blue to 5 drops yellow. Recipe B: 4 drops blue to 7 drops yellow. Scale both to a common amount of yellow to compare which recipe is more blue.**

Complete the table. Show how you found each value.

| Recipe                  | Blue Drops | Yellow Drops |
|-------------------------|------------|--------------|
| Recipe A                | 3          | 5            |
| Recipe B                | 4          | 7            |
| Recipe A (scaled to 35) |            | 35           |
| Recipe B (scaled to 35) |            | 35           |

Show your work

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