

Lesson 3-9 • Group 2

Reinforce Understanding

3.9 Small Group • Group 2

I can find and check equivalent ratios using multiplication and division, explain why the method works, and use it on a problem I have not seen before.

Worked model

Chef Montoya's soup serves 8 people, but she needs to serve 32.

1. I find the scale factor: 32 divided by 8 = 4.
2. The recipe uses 3 cups of tomatoes to 2 cups of broth, a 3:2 ratio.
3. I multiply both by 4: $3 \times 4 = 12$ cups of tomatoes, and $2 \times 4 = 8$ cups of broth.
4. So 3:2 and 12:8 are equivalent ratios, and the flavor stays the same.

Practice

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

1. Sort these ratios — which are equivalent to 3:4 and which are not?

Write the name of the correct group on each line.

Groups: Equivalent to 3:4 NOT Equivalent to 3:4

- _____ 6:8
- _____ 9:12
- _____ 15:20
- _____ 3:5
- _____ 4:3
- _____ 6:12

2. Find the missing value that makes each pair of ratios equivalent.

Complete the table. Show how you found each value.

Ratio 1	Ratio 2	Missing Value
3:7	9:?	
5:8	? :24	
4:6	? :3	

Show your work
