

Lesson 3-9 • Group 1

Reinforce Understanding

3.9 Small Group • Group 1

With my small group, I can find and check equivalent ratios using multiplication and division — one step at a time, with support.

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 each pair of ratios: are they equivalent or not equivalent?

Write the name of the correct group on each line.

Groups: Equivalent Ratios NOT Equivalent

- _____ 2:4 and 3:6
- _____ 5:10 and 1:2
- _____ 3:7 and 6:12
- _____ 4:9 and 8:16

2. 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

3. Which ratio is equivalent to 2:5?

Circle the letter of the best answer. Show how you know.

- A. 2:10
- B. 3:6
- C. 4:10
- D. 5:2

Show your work
