Name _____ Date _____ Period _____

LESSON 3-5 · WARM-UP

Warm-Up Practice

Comparing Ratio Relationships

THE MOVE

what this page practices

Scale both parts of a ratio to reach a target number, then compare

Find the factor that turns one part into the target. Multiply the other part by that same factor. Now the two ratios share a number, so you can compare.

WORKED MODEL

we do this one together

Step 1	Scale 3 : 4 so the first number is 12.
Step 2	Ask: what do you multiply 3 by to get 12? _____
Step 3	Use that same factor on 4: 4 × 4 = _____
Step 4	So 3 : 4 = 12 : _____

YOUR TURN

8 items · about 10 minutes

1. Scale 2 : 5 so the first number is 10. 2 : 5 = 10 : _____

ANSWER _____

2. Scale 3 : 7 so the first number is 9. 3 : 7 = 9 : _____

ANSWER _____

3. Scale 4 : 3 so the second number is 12. _____ : 12

ANSWER _____

4. Team A wins 3 of 5 games. Team B wins 7 of 10 games. Scale Team A to 10 games: _____ of 10. Which team wins more often? _____

ANSWER _____

5. Scale 5 : 8 so the first number is 40. 5 : 8 = 40 : _____

ANSWER _____

6. Recipe X uses 2 cups of sugar for 6 cups of flour. Recipe Y uses 3 cups of sugar for 8 cups of flour. Scale each to 24 cups of flour. X: _____ cups of sugar. Y: _____ cups of sugar. Which is sweeter? _____

ANSWER _____

7. 6 : 7 = _____ : 42 What factor was used? _____

ANSWER _____

8. Juice A mixes 2 cups of concentrate with 7 cups of water. Juice B mixes 3 cups of concentrate with 10 cups of water. Scale both to 6 cups of concentrate. A = 6 : _____ B = 6 : _____ Which juice tastes stronger? _____

ANSWER _____