Name _____ Date _____ Period _____

Lesson 3-4

Reinforce Understanding

Determine Equivalent Ratios Using Graphs

I can graph the values from a ratio table as points on the coordinate plane.

Worked model

A sticker sheet holds 7 stickers per page. Let x = pages and y = stickers.

1. Make a table. 1 page → 7 2 pages → 14 3 pages → 21
2. Write each row as an ordered pair. (1, 7) (2, 14) (3, 21)
3. Plot the points and add (0, 0) — zero pages hold zero stickers.
4. Draw one straight line through the origin and all the points.

Answer: The points (0, 0), (1, 7), (2, 14), (3, 21) lie on one straight line.

Practice

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

1. A recipe uses 1 cup of sugar for every 2 cups of flour. Plot the ordered pairs: (1, 2), (2, 4), (3, 6).

Plot and label each point on the grid.

Show your thinking

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2. A ratio table shows (2, 6), (4, 12), and (6, 18). Which ordered pair comes next if the pattern continues?

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

A. (7, 20)
B. (8, 24)
C. (8, 22)
D. (10, 24)

Show your work

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3. When you graph equivalent ratios, the points will always form what shape?

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

A. A curved line
B. A straight line through the origin
C. A zigzag
D. A circle

Show your work
