

## Equivalent Ratios

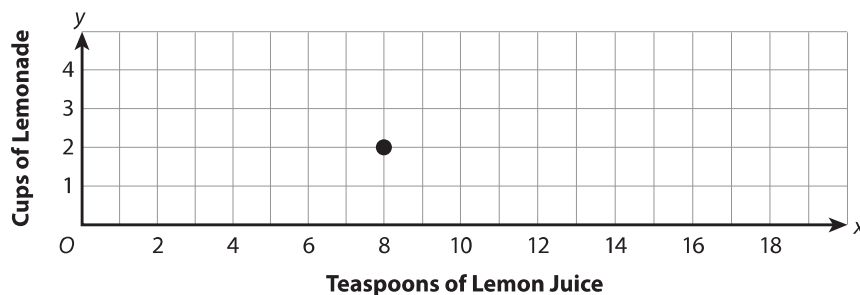
Solve the problems.

- 1** Kate, Mario, Sato, and Den each use a different recipe to make trail mix. Which recipe uses a different ratio of cups of raisins to cereal than the rest?
- A** Kate uses 3 cups of raisins for every 8 cups of cereal.
  - B** Mario uses 4 cups of raisins for every 12 cups of cereal.
  - C** Sato uses 6 cups of raisins for every 16 cups of cereal.
  - D** Den uses 9 cups of raisins for every 24 cups of cereal.

To find one ratio that's different, I need to find some that are equal to each other.



- 2** The graph shows the number of teaspoons of lemon juice in cups of lemonade.



Which number is first in an ordered pair?



Which ordered pair represents a ratio equivalent to the ratio of teaspoons of lemon juice to cups of lemonade shown by the point on the graph?

- A** (4, 16)
- B** (6, 1)
- C** (9, 3)
- D** (16, 4)

Oscar chose **A** as the correct answer. How did he get that answer?

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**Solve.**

**3** Rey buys 4 cards for \$10. He plots the point (4, 10) on a graph. All cards are the same price. He wants to see how much it would cost to buy more cards. Tell whether each statement is *True* or *False*.

- a. The point (6, 15) will be on the graph.  True  False
- b. Rey buys 1 card for \$3.50.  True  False
- c. Rey buys 100 cards for less than \$40.  True  False
- d. The point (14, 35) will be on the graph.  True  False

*Be sure that you understand what Rey's ordered pair means.*



**4** Each table shows four ratios of boys to girls at different sporting events. Which tables show four equivalent ratios of boys to girls? Select all that apply.

**A**

3	5	9	12
5	7	15	20

**C**

45	25	10	5
18	10	4	2

**B**

3	4	7	11
12	16	28	44

**D**

200	150	100	50
50	40	30	20

*What makes two ratios equivalent?*



**5** Rosa earns \$10 for every 3 hours that she works. Ralph earns \$7 for every 2 hours that he works. Who earns more per hour? How much *more* does this person earn after 12 hours of work?

**Show your work.**

Solution: \_\_\_\_\_  
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*Be careful not to compare \$10 to \$7—these represent earnings for different numbers of hours.*

