

Learning Objective: Students will be able to compare and graph ratios.

Warm Up

$$1. 2\frac{3}{5} \div \left(\frac{9}{4} \div \frac{5}{8} \right)$$

$$4. \frac{4}{3} \div \frac{9}{10} \div \frac{7}{9}$$

$$7. \frac{1}{6} \div \left(2\frac{6}{7} \div \frac{3}{2} \right)$$

$$2. \frac{1}{5} \div \left(1\frac{3}{8} \div \frac{11}{6} \right)$$

$$5. \frac{2}{9} \div \frac{2}{3} \div 2\frac{6}{7}$$

$$8. \frac{15}{8} \div \left(\frac{18}{5} \div \frac{2}{5} \right)$$

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Warm Up Answers

$$1. 2\frac{3}{5} \div \left(\frac{9}{4} \div \frac{5}{8}\right) \\ = \frac{13}{18}$$

$$4. \frac{4}{3} \div \frac{9}{10} \div \frac{7}{9} \\ = \frac{40}{21} = 1\frac{19}{21}$$

$$7. \frac{1}{6} \div \left(2\frac{6}{7} \div \frac{3}{2}\right) \\ = \frac{7}{80}$$

$$2. \frac{1}{5} \div \left(1\frac{3}{8} \div \frac{11}{6}\right) \\ = \frac{4}{15}$$

$$5. \frac{2}{9} \div \frac{2}{3} \div 2\frac{6}{7} \\ = \frac{7}{60}$$

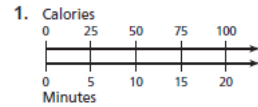
$$8. \frac{15}{8} \div \left(\frac{18}{5} \div \frac{2}{5}\right) \\ = \frac{5}{24}$$

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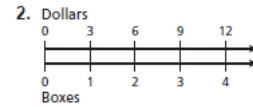
Homework Answers

5.3 Record and Practice Journal

Write a rate that represents the situation.



100 calories for every 20 minutes



\$3 for every box

Write a unit rate for the situation.

3. 9 strikes in 3 innings

3 strikes : 1 inning

4. 117 points in 13 minutes

9 points : 1 minute

Decide whether the rates are equivalent.

5. 30 beats per 20 seconds,
90 beats per 60 seconds

yes

6. 15 pages in 20 minutes,
10 pages in 15 minutes

no

7. One of the valves on the Hoover Dam releases 40,000 gallons of water per second. What is the rate in gallons per minute?

2,400,000 gallons per minute

Lesson 5.4

December 2, 2014

Essential Question:

How can you compare two ratios?

Lesson Objective:

Students will be able to:

compare and graph ratios.

Self-Evaluation Scale

Score	Description
4	I can teach other students how to compare and graph ratios.
3	I can compare and graph ratios.
2	I recognize, but still need help to compare and graph ratios.
1	I do not know how to compare and graph ratios.

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Activity 1 & 2

Work with a partner on Activity 1 & 2 on
page 109 & 110 of your (soft cover)
Record and Practice Journal.

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1 ACTIVITY: Comparing Ratio Tables

Work with a partner.

- You make purple frosting by adding 1 drop of red food coloring for every 3 drops of blue food coloring.
 - Your teacher makes purple frosting by adding 3 drops of red food coloring for every 5 drops of blue food coloring.
- a. Copy and complete the ratio table for each frosting mixture.

Your Frosting	
Drops of Red	Drops of Blue
1	
2	
3	
4	
5	



Your Teacher's Frosting	
Drops of Red	Drops of Blue
3	
6	
9	
12	
15	

- b. Whose frosting is bluer? Whose frosting is redder? Justify your answers.
- c. **STRUCTURE** Insert and complete a new column for each ratio table above that shows the total number of drops. How can you use this column to answer part (b)?

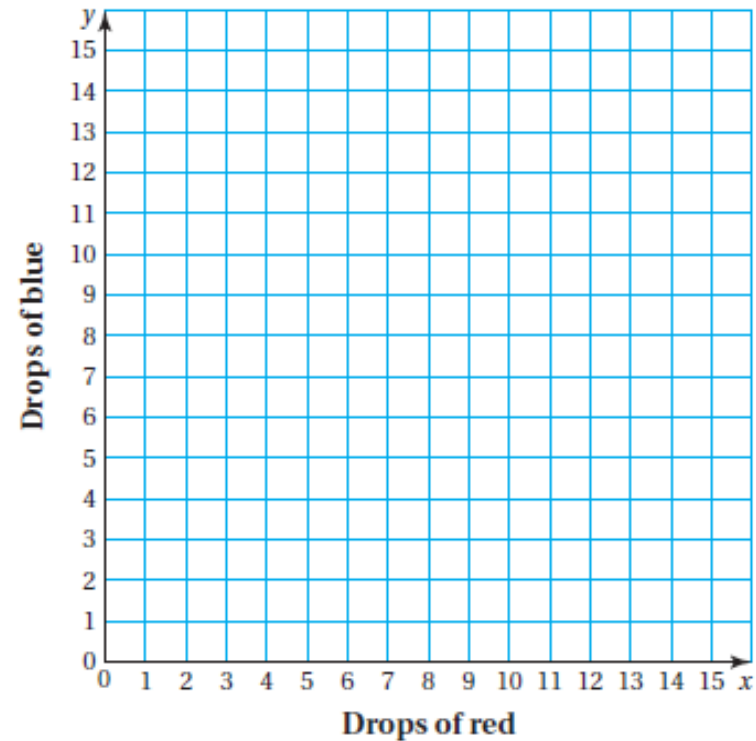
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2 ACTIVITY: Graphing from a Ratio Table

Work with a partner.

- Explain how you can use the values from the ratio table for your frosting to create a graph in the coordinate plane.
- Use the values in the table to plot the points. Then connect the points and describe the graph. What do you notice?
- What does the line represent?

es.



Learning Objective: Students will be able to make ratio tables and use them to solve problems.

Homework

No Homework