

NAME \_\_\_\_\_

DATE \_\_\_\_\_

# COMPARING RATIOS

Increase your understanding of proportional situations with these exercises.

Here is an activity to consider before you attempt this quiz. This question can be discussed in class as well.

Observe the two pitchers below. Assume that each pitcher is filled with the same amount of lemonade. The little squares indicate the amount of water and lemonade concentrate used to prepare each pitcher of lemonade.



1 cup lemonade concentrate



1 cup of water

Which pitcher will have the stronger lemon flavor, or will they be the same?

Read the following questions carefully before answering.

## 1. QUESTION



Two camps of Scouts are having pizza parties. The Bear Camp ordered enough so that every 3 campers will have 2 pizzas. The leader of the Raccoons ordered enough so that there would be 3 pizzas for every 5 campers. Did the bear campers or Raccoon campers have more pizza to eat?

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## 2. QUESTION



Jim can run 4 laps in 12 minutes. Joe can run 2 laps in 5 minutes. Who is the faster runner, or do they run the same.

Answer = \_\_\_\_\_

## 3. QUESTION

Jack and Jill were picking strawberries at the Pick Your Own Berry Patch. Jack “sampled” 5 berries every 25 minutes. Jill ate 3 berries every 10 minutes. If they both continue to pick at about the same speed, who will bring home more berries? Or will they each pick the same?

Answer = \_\_\_\_\_

## 4. QUESTION

Some of the hens in Farmer Brown’s chicken farm lay brown eggs and the others lay white eggs. Farmer Brown noticed that in the large hen house he collected about four brown eggs for every ten white one. In the smaller hen house the ratio of brown to white was 1 to 3. In which hen house do the hens lay more brown eggs, or are the two the same?

Answer = \_\_\_\_\_

## 5. QUESTION



Vincent drove his car 120 miles in 2 hours, and Carlton drove 180 miles in 3 hours. Who drove faster, or did they drive the same speed?

Answer = \_\_\_\_\_

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**6. QUESTION**

Two parking garages, A and B, have 30 and 40 total spaces respectively. If lot A has 18 cars parked and lot B has 28 cars, which lot is more filled?

Answer = \_\_\_\_\_

**7. QUESTION**

Talks-A-Lot Phone company charges 70¢ for every 15 minutes. Reaching-Out- Phone company charges \$1.00 for 20 minutes. Which company is offering the cheaper rate, or are the two rates alike?

Answer = \_\_\_\_\_

**8. QUESTION**

Myron drew a house on paper. The house is scaled down at 1:10. If the actual area of the house is 214 square meters. What is the area of the house on paper?

Answer = \_\_\_\_\_

**9. QUESTION**

Which rectangle is more like a square?

- a. 3 x 5 rectangle
- b. 8 x 14 rectangle