

# Rate-Quiz

Key

14

13-A  
12-B  
11-C+  
10-C-

9-D  
8-F  
↓

Name: \_\_\_\_\_

Period: \_\_\_\_\_

## Chapter 7 (Rate) Quiz

Directions: Use any strategy to solve the following problems. Use the space below, as needed, for calculations. Only answers entered on the chromebook will be graded.

1. A seventh-grade class has information about a fundraiser: selling lemonade. They could earn \$65 every two days selling lemonade.

a) What is the UNIT RATE (rate per day)?

$$\$32.50 \div 2$$

$$\begin{array}{r} 32 \\ \times 7 \\ \hline 210 \\ 210 \\ \hline 2240 \end{array}$$

Days	Profit (\$)
1	32.50
2	65
4	130
14	

$$2 \overline{) 65.0} = 32.5$$

$$\begin{array}{r} 65 \\ \underline{65} \\ 0 \\ \underline{0} \\ 0 \end{array}$$

b) How much could they make in 2 weeks (14 days)?

$$\$32.50 \times 14 = \$455$$

2. Eliza is saving money to buy a new phone. She currently saves \$45 every 4 weeks. If her brother saves \$39 every 3 weeks, who saves at a faster rate? Explain your reasoning.

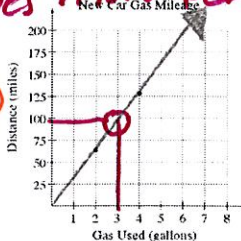
$$\frac{\$45}{4} = \$11.25$$

$$\frac{\$39}{3} = \$13$$

+1 Brother is faster because he saves more per week.

3. The graph to the right displays gas mileage for a new car. Use the graph to predict the number of miles the car could travel with three gallons of gas.

100 miles +2 (90-110) okay



4. For each of the following pairs of fractions, complete the fraction on the right so that the two fractions are equivalent. A Giant-One might be helpful.

a)  $\frac{30}{35} = \frac{6}{7}$

b)  $\frac{8}{40} = \frac{1}{5}$

c)  $\frac{15}{20} = \frac{3}{4}$  +3

5. One serving of peanuts is  $\frac{3}{4}$  ounces. How many servings are there in 9 ounces of peanuts?

$$+2 \frac{\text{servings}}{\text{oz.}} = \frac{1}{\frac{3}{4}} \times \frac{12}{12} = \frac{12}{9 \text{ oz}}$$

$$9 \div \frac{3}{4} = 9 \times \frac{4}{3} = \frac{36}{3} = 12$$

There are 12 servings.

$$\begin{array}{r} 11\frac{1}{4} \\ 4 \overline{) 45} \\ \underline{40} \\ 05 \\ \underline{4} \\ 1 \end{array}$$

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