

6th Grade Math Common Assessment Answer Key: Chapter 7 (18 Points)

Name: _____ Date _____

6.RP.1

1.) A punch bowl contained 2 liters of 7-UP, 1 liter of orange juice, and 1 liter of raspberry juice. **Select all the true statements.** (4 points)

- A. The ratio of the 7-UP to the entire punch bowl is 1 to 4.
- B. The ratio of orange juice to 7-UP is 2 to 1.
- C. The ratio of the juices to the 7-UP is 2 to 2.
- D. The ratio of the entire punch bowl to the juices is 2 to 4.
- E. The ratio of the orange juice to the raspberry juice is 1 to 1.

6.RP.1

2.) In Ken's meatball recipe, for every 5 cups of bread crumbs, 9 pounds of Ground beef are used. **Write this ratio using a fraction and label the numbers in the fraction.** (1 point)

$$\frac{5 \text{ bread crumbs}}{9 \text{ pounds of ground beef}}$$

6.RP.2

3.) A 5-pound bag of cat food costs \$11.25. **What is the unit price of the cat food in dollars per pound?** (1 point)

- A. \$0.44 per pound
- B. \$2.25 per pound
- C. \$6.25 per pound
- D. \$56.25 per pound

6.RP.2 and 6.RP.3

4.) An online game company offers a package that includes 2 games for \$11.98. They also offer a package that includes 5 games for \$24.95. **Show your work.**

Which package is a better deal? Explain (4 points)

If you buy the package deal for \$11.98 you will pay \$5.99 per online game. If you take the package deal for \$24.95 you will pay \$4.99 per online game. The \$24.95 package is the better deal.

6.RP.3b

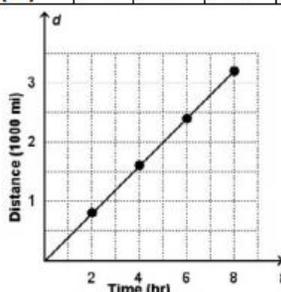
5.) Which of the rates shown here correspond to a unit rate of \$6 per sandwich? (Remember there can more than on answer) (2 points)

- A. Spending \$42 to buy 7 sandwiches
- B. Spending \$108 to buy 18 sandwiches
- C. Spending \$40 to buy 5 sandwiches
- D. Spending \$100 to buy 16 sandwiches
- E. Spending \$42 to buy 6 sandwiches

6.RP.3 a.b. and 6.NS.6b

6.) A plane was traveling at a constant speed and went 32 miles in 8 hours. Make a table of four pairs of distance and time. Then use your table to create a graph of distance versus time. (1 point for each correct ordered pair in the table, 2 points for a correct graph)

Distance (miles)	800	1600	2400	3200
Time (hr)	2	4	6	8



(Students may switch which quantity goes on which axis for full credit, as long as they apply their decision correctly.)

6.RP.3c

7.) A 15% tip on a dinner bill is \$2.55. How much is the dinner bill? (1 point)

- A. \$0.17
- B. \$0.38
- C. \$17.00
- D. \$38.25

8.) Write the given decimal as a simplified fraction and percent. (2 points)

- a.) 0.057 5.7% $\frac{57}{1000}$
- b.) 0.365 36.5% $\frac{365}{1000} = \frac{73}{200}$