



Name

Directions: Show your work for each question for credit. This review will be counted as a quiz for the 3rd marking period. Please use your notes, textbook, tests, quizzes, and previous spiral review assignments to help you solve the following problems.

1. What is another way to write the phrase "seventeen less than nine times q "?

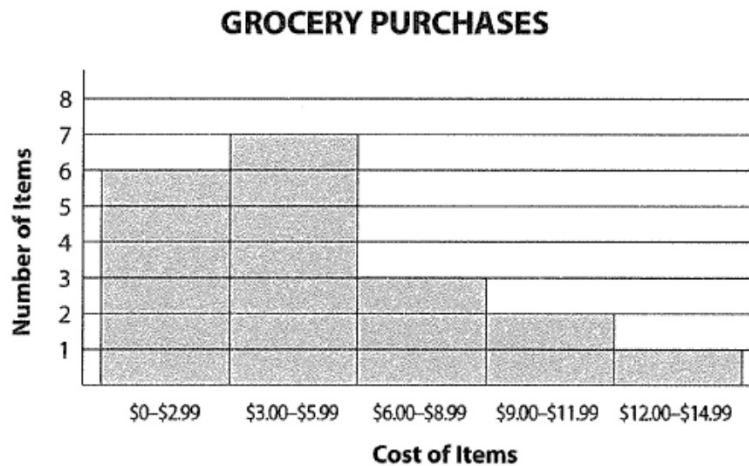
- A $\frac{9}{q} - 17$
- B $9(q - 17)$
- C $\frac{9 - q}{17}$
- D $9q - 17$

2. Simplify the expression below.

$$8 - 4^2 \div 2 + 5$$

- A 1
- B 5
- C 7
- D 13

3. Kate went to the grocery store and bought 19 items. Her purchases are sorted into the five price ranges in the histogram below.



According to the graph, how many items did Kate purchase that cost between \$3.00 and \$11.99?

- A 3
- B 7
- C 10
- D 12

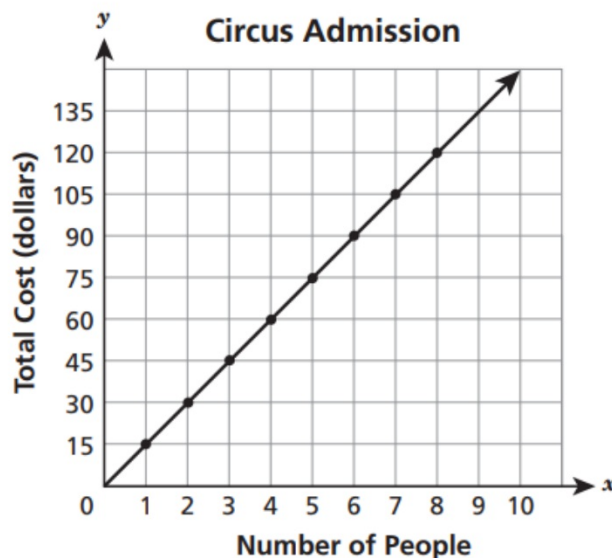
8. When Errol was ten years old, he was 56 inches tall. On his fourteenth birthday, he was 63 inches tall. By what percent did his height increase?

- A 7%
- B 11.1%
- C 12.5%
- D 112.5%

9. A number, n , is multiplied by $-\frac{5}{8}$. The product is -0.4 . What is the value of n ?

- A $-\frac{16}{25}$
- B $-\frac{1}{4}$
- C $\frac{1}{4}$
- D $\frac{16}{25}$

10. The graph below shows the relationship between the number of people in a group and the total cost of admission tickets for a circus.



What point on the graph represents the unit rate?

- A (0, 0)
- B (1, 15)
- C (15, 1)
- D (8, 120)

11. Ilsa surveyed students at her middle school about their favorite radio station. There are 927 students at her school. Of the 123 students in the orchestra, 78 students said their favorite station was WCLS. Based on the survey, Ilsa says that most of the students at her school think that WCLS is the best radio station. Why is Ilsa's statement incorrect?
- A Ilsa did not include teachers in her survey.
 - B Ilsa did not include TV shows in her survey.
 - C Ilsa did not ask how often students listen to the radio.
 - D Ilsa's survey sample does not represent all of the students in her school.
12. Henry expected the bag to contain an equal number of nuts, raisins, and chocolate chips. Which statement **best** compares the contents of the bag of trail mix with Henry's expectations?
- A The bag contained more nuts than expected.
 - B The bag contained fewer nuts than expected.
 - C The bag contained more raisins than expected.
 - D The bag contained fewer raisins than expected.
13. A dealer paid \$10,000 for a boat at an auction. At the dealership, a salesperson sold the boat for 30% more than the auction price. The salesperson received a commission of 25% of the difference between the auction price and the dealership price. What was the salesperson's commission?
- A \$750
 - B \$1,750
 - C \$3,250
 - D \$5,500
14. Which expression is equivalent to $8c + 6 - 3c - 2$?
- A $5c + 4$
 - B $5c + 8$
 - C $11c + 4$
 - D $11c + 8$
15. Salid bought 35 feet of window trim at a hardware store. The trim cost \$1.75 per foot, including sales tax. If Salid paid with a \$100.00 bill, how much change should he have received?
- A \$20.00
 - B \$38.75
 - C \$61.25
 - D \$80.00