

TEST NAME: Proportions and Percents
TEST ID: 766236
GRADE: 07 - Seventh Grade
SUBJECT: Mathematics
TEST CATEGORY: Shared Classroom Assessments

12/10/15, Proportions and Percents

Student: _____

Class: _____

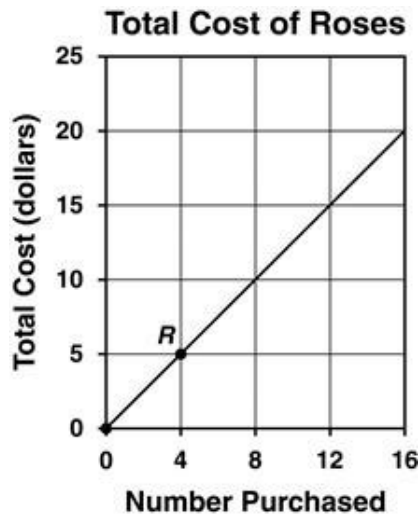
Date: _____

1. The cost of notebooks at the school store is shown in the table below.

Number of Notebooks	Cost
2	\$1.50
3	\$2.25
4	\$3.00
5	\$3.75

What is the cost of one notebook?

- A. \$0.50
B. \$0.75
C. \$1.50
D. \$2.25
2. The number of roses purchased is proportional to the total cost as modeled in the graph shown. Four roses cost \$5 as represented by Point *R*.



What is the cost of one rose?

- A. \$1.25
B. \$2.50
C. \$4.00
D. \$5.00

3. If a school library has 86 fiction books and 74 nonfiction books, what is the percentage of nonfiction books?
- A. 0.4625%
 B. 0.8605%
 C. 46.25%
 D. 86.05%
4. Mrs. Barrera learned that 21 of her 25 students ride the school bus every morning. What percent of her students ride the school bus every morning?
- A. 21%
 B. 25%
 C. 84%
 D. 96%
5. A group of college students spent \$58.50 for dinner and wanted to leave a 15% tip. Which is the closest to the amount they should leave?
- A. \$4
 B. \$6
 C. \$9
 D. \$12
6. Mary read 240 of the 400 pages in her book. What percentage of the pages in her book did Mary read?
- A. 16%
 B. 40%
 C. 60%
 D. 75%
7. Mrs. Williamson had 18 students in her homeroom at the beginning of the school year and 24 students at the end of the year. What was the approximate percent increase in the number of students in Mrs. Williamson's homeroom?
- A. 25%
 B. 33%
 C. 57%
 D. 75%

8. This table on a package of dog food tells how much to feed a dog, depending on its weight.

Weight of Dog (pounds)	15	30	45
Amount of Food (scoops)	2	4	6

The amount of food in scoops (s) is related to the weight of the dog in pounds (p) by the equation $s = kp$. What is k ?

- A. 7.5
 B. $\frac{2}{15}$
 C. 1.5
 D. $\frac{4}{15}$

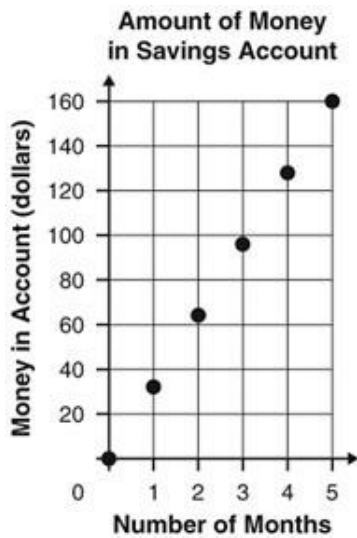
9. Judy calculated what she and several of her friends would weigh on the Moon. She recorded both their Earth and Moon weights in the table below.

Weight on the Moon

Earth Weight (lbs)	98	100	105	116
Moon Weight (lbs)	16.2	16.6	17.4	19.2

How would Judy determine the constant of proportionality given that $y = kx$, where x represents a person's weight on Earth, y represents a person's weight on the Moon, and k is the constant of proportionality?

- A. determine the change in Moon weights anywhere in the table
 - B. take the ratio of Earth weight to Moon weight for any column in the table
 - C. take the ratio of Moon weight to Earth weight for any column in the table
 - D. determine the ratio of change in Earth weights to Moon weights anywhere in the table
10. Jeremy started a savings account and deposited the same amount of money each month into his account.



Which is closest to the amount of money Jeremy deposits each month?

- A. \$27
- B. \$32
- C. \$96
- D. \$160