

TEST NAME: Interim #2 Study Guide (Durden)
TEST ID: 2123662
GRADE: 07 - Seventh Grade
SUBJECT: Mathematics
TEST CATEGORY: School Assessment

01/16/18, Interim #2 Study Guide (Durden)

Student: _____

Class: _____

Date: _____

1. **What is the value of $-727 - (-461)$?**
 - A. -1188
 - B. -266
 - C. 266
 - D. 1188

2. **Jacob measured the temperatures of two liquids. The first liquid was -8°C . The second liquid was 14°C . What is the difference in the temperatures of these two liquids?**
 - A. -22°C
 - B. -6°C
 - C. 6°C
 - D. 22°C

3. **Kevin earns \$95 a day after taxes at his job. He pays \$5.75 each day for a round trip subway ticket. If Kevin works 5 days a week, how much money does he have left for other expenses?**
 - A. \$451.25
 - B. \$446.25
 - C. \$469.25
 - D. \$503.75

4. $4213 - 105 =$
 - A. 3163
 - B. 3208
 - C. 4108
 - D. 4112

5. A garden is 17.8 feet long. Mr. Tartan's class wants to make the garden 2.35 times longer. What will be the length of the new garden?
- A. 4.183 feet
 - B. 41.83 feet
 - C. 418.3 feet
 - D. 41,830 feet
6. Britney ran $3\frac{1}{2}$ miles in $\frac{1}{2}$ hour. At this rate, how many hours will it take Britney to run 1 mile?
- A. $\frac{7}{4}$ hours
 - B. $1\frac{3}{4}$ hours
 - C. $\frac{1}{7}$ hour
7. In a fireplace, about $\frac{3}{4}$ of an 18-inch log will burn in $\frac{1}{3}$ of an hour. How many hours will it take to burn $2\frac{1}{2}$ logs?
- A. $\frac{3}{4}$ of an hour
 - B. $\frac{9}{10}$ of an hour
 - C. $1\frac{1}{9}$ hours
 - D. $2\frac{1}{4}$ hours

8. A pizza shop uses $\frac{1}{2}$ ounce of pepperoni for every $\frac{1}{4}$ of a large pizza. How much pepperoni does one large pizza have?

A. $\frac{1}{8}$ ounce

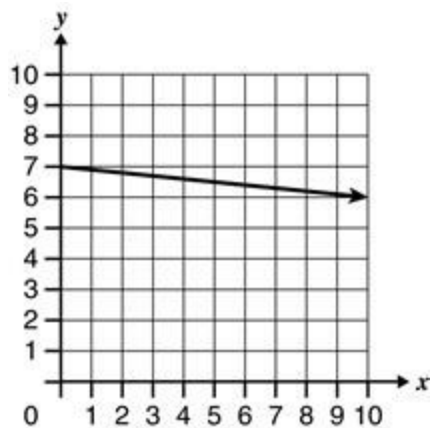
B. $\frac{1}{2}$ ounce

C. 1 ounce

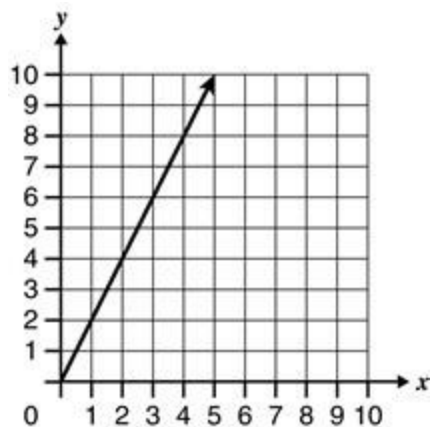
D. 2 ounce

9. Which graph shows only a direct variation between x and y ?

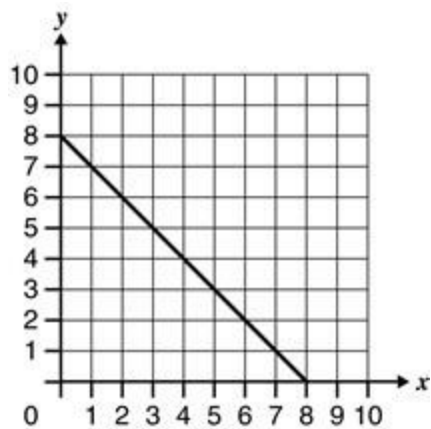
A.



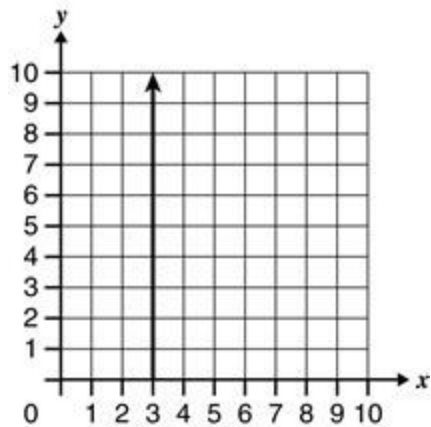
B.



C.



D.



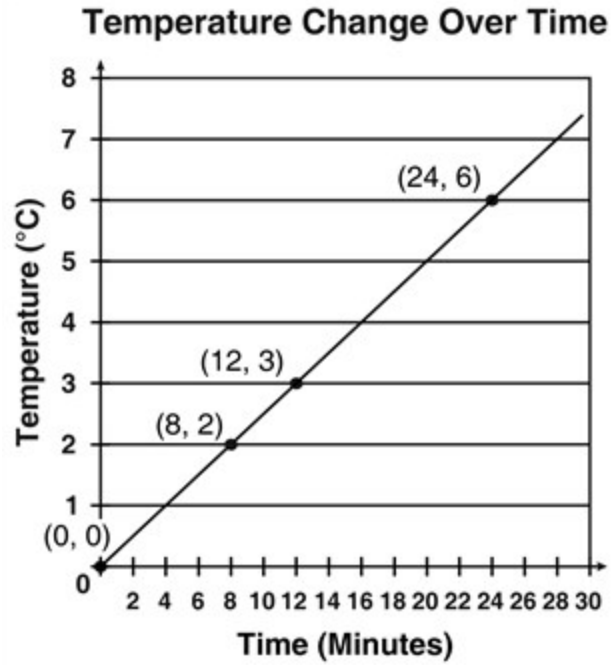
10. The table of values below represents a proportional relationship.

x	y
2	7
4	14
—	35

What is the value of the missing number?

- A. 8
 - B. 10
 - C. 14
 - D. 122.5
11. **Mrs. Wong planted 3 tulips for every 4 daffodils. Which of the following could be the total number of tulips and daffodils that Mrs. Wong planted?**
- A. 30 tulips and 44 daffodils
 - B. 33 tulips and 34 daffodils
 - C. 34 tulips and 33 daffodils
 - D. 36 tulips and 48 daffodils

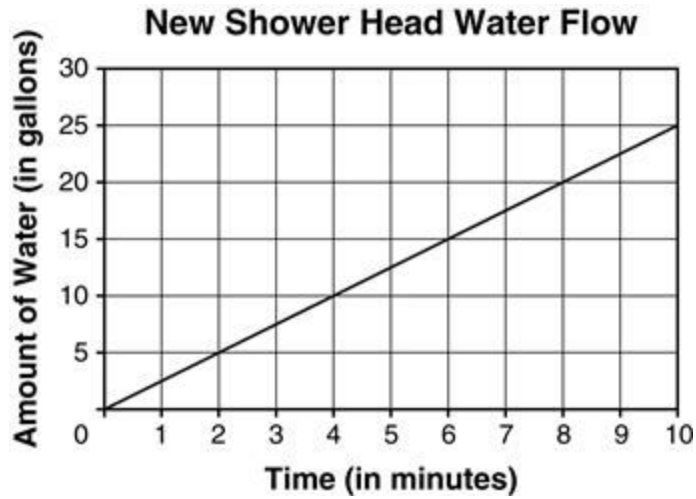
12. The graph shows data from a science experiment in which the temperature of a substance was measured over time.



What is the constant of proportionality for degrees per minute?

- A. 4
- B. 2
- C. $\frac{1}{2}$
- D. $\frac{1}{4}$

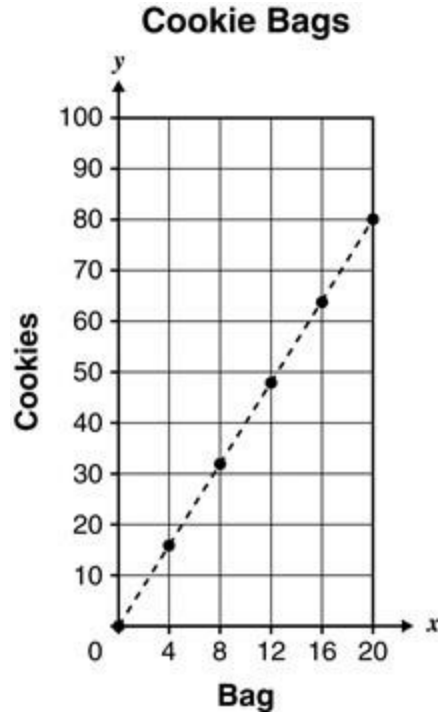
13. Mr. Diaz changed his showerhead to conserve water and energy. The table below shows the relationship between the amount of flow and the duration of the water flow.



Which statement **BEST** describes the rate of water flow?

- A. 0.4 gallons per minute
- B. 2.1 gallons per minute
- C. 2.5 gallons per minute
- D. 3.0 gallons per minute

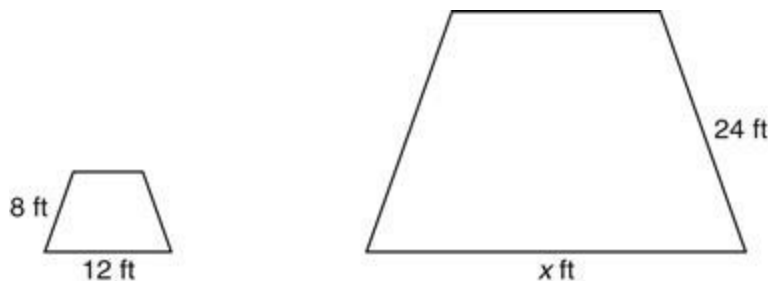
14. Mrs. Woods prepared bags of baked cookies. The graph shows the number of bags and the number of cookies she used.



She distributed the cookies evenly throughout all the bags. How many cookies did she use per bag?

- A. 1 cookie per bag
 - B. 4 cookies per bag
 - C. 15 cookies per bag
 - D. 20 cookies per bag
15. Lars completed the grooming of 3 dogs in 2 hours. Which proportion can be used to determine the number of dogs Lars can groom in an 8-hour workday?
- A. $\frac{2}{d} = \frac{3}{8}$
 - B. $\frac{2}{3} = \frac{8}{d}$
 - C. $\frac{2}{3} = \frac{d}{8}$
 - D. $\frac{3}{8} = \frac{d}{2}$

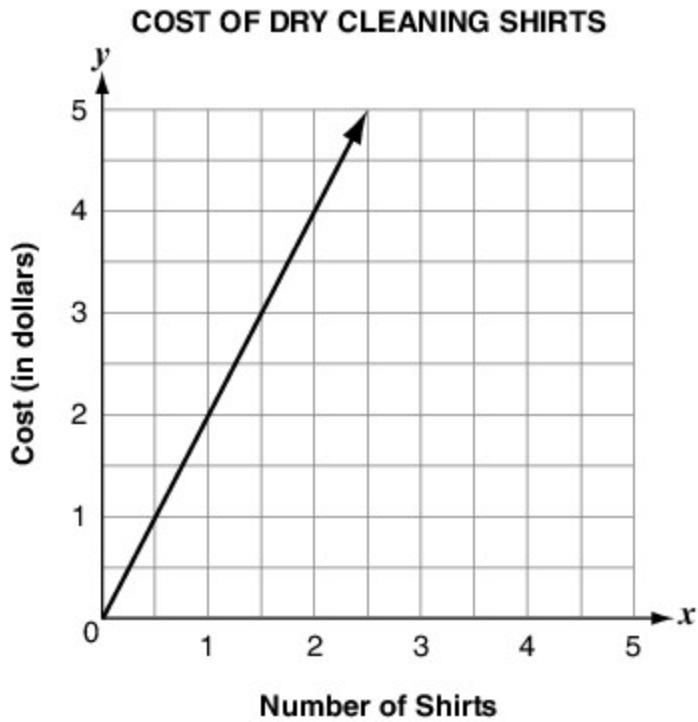
16. Two stage floors are in the shape of isosceles trapezoids. The small stage floor in the drama room is geometrically similar to the large stage floor in the auditorium, as shown below.



Which proportion can be used to find the length of x , the large stage floor?

- A. $\frac{8}{12} = \frac{x}{24}$
- B. $\frac{8}{12} = \frac{24}{x+12}$
- C. $\frac{8}{24} = \frac{12}{x}$
- D. $\frac{12+x}{8} = \frac{12+x}{24}$
17. The number of gallons of gas, g , used by a car is proportional to the number of miles, m , with a constant average miles per gallon, a . Which equation represents this relationship?
- A. $g - m = a$
- B. $\frac{m + g}{2} = a$
- C. $a = gm$
- D. $g = am$

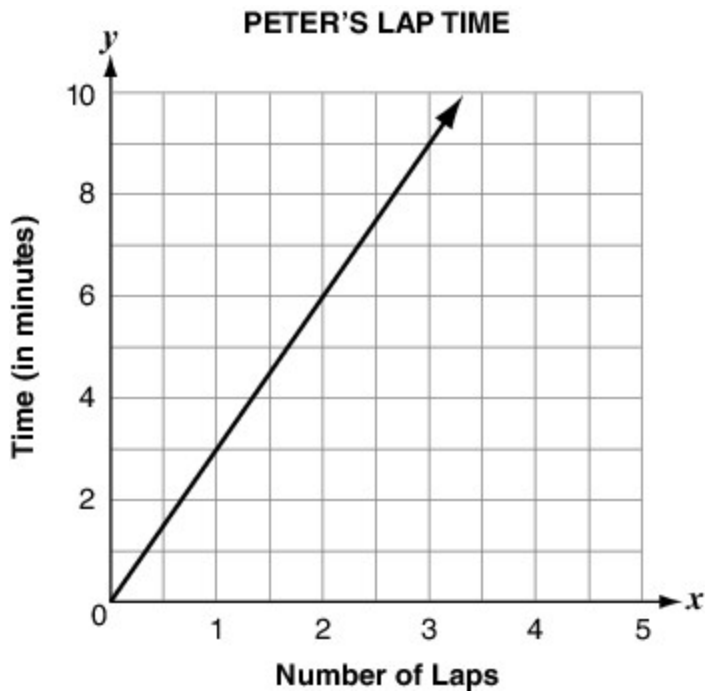
18. A dry cleaning service's costs for cleaning shirts are shown in the graph.



What is the meaning of the point $(1, 2)$ in terms of the context?

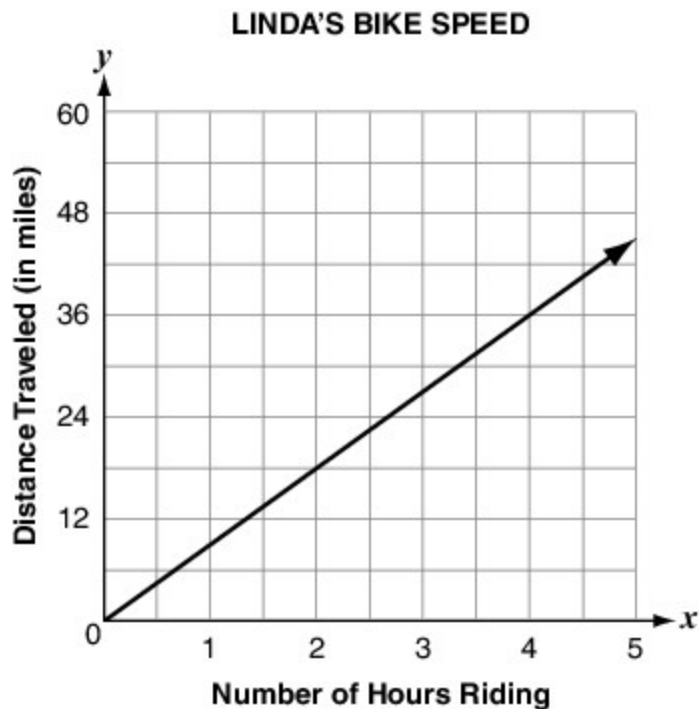
- A. The dry cleaning service charges \$1 per shirt.
- B. The dry cleaning service charges \$2 per shirt.
- C. The dry cleaning service charges \$1 for 2 shirts.
- D. The dry cleaning service charges \$2 for 2 shirts.

19. The number of laps Peter completes on a running track is proportional to the time he takes in minutes. This relationship is graphed below.



Write the ordered pair that indicates the unit rate in terms of minutes per lap.

20. The graph below shows the relationship between the number of hours Linda rides her bike and the distance she travels.



How many miles does Linda travel in 1 hour?

- A. 6 miles
 - B. 9 miles
 - C. 12 miles
 - D. 18 miles
21. The original price of a jacket was \$66.95. Maria used a coupon for 20% off to buy the jacket. How much did she pay before tax?
- A. \$13.39
 - B. \$46.95
 - C. \$53.56
 - D. \$65.61

22. **A new refrigerator has a price of \$480.00. The store will discount the price by 15% if the purchaser pays in cash. What is the cash price of the refrigerator?**
- A. \$240.00
 - B. \$408.00
 - C. \$465.00
 - D. \$472.80
23. **An object that weighs 50 newtons on Earth weighs approximately 20 newtons on the planet Mercury. A rock weighs 100 newtons on Earth. What is the approximate weight of the rock, in newtons, on Mercury?**
- A. 40
 - B. 70
 - C. 170
 - D. 250
24. **Mr. Rodriguez receives a 7% commission for every computer he sells. If Mr. Rodriguez sold 8 computers last week and each computer sold was \$1100, what is the amount of Mr. Rodriguez's commission?**
- A. \$484
 - B. \$616
 - C. \$770
 - D. \$1,716