

Chapter 1 Test – Study Guide

Write the letter for the correct answer in the blank at the right of each question.

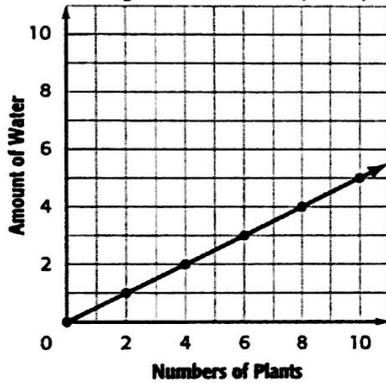
1. What is the constant rate of change of the table below? (L1-7)

Hours	2	4	6	8
Miles	70	140	210	280

- A. 105 miles per hour
 B. 70 miles per hour
 C. 50 miles per hour
 D. 35 miles per hour

1. _____

2. What is the slope of the line? (L1-8) ***Memorize the slope formula!



- F. $\frac{1}{2}$ G. 2 H. 5 I. 12

2. _____

3. Dawson rakes leaves in his neighborhood. The equation $y = 10x$ represents the amount of money he earns. What is the constant of proportionality? (L1-9)

- A. 1 C. 10
 B. 5 D. 20

3. _____

4. What is the solution of the proportion $\frac{3}{16} = \frac{9}{y}$? (L1-6)

- F. 32 G. 48 H. 60 I. 72

4. _____

5. Which size can of green beans shown in the table has the lowest unit price? (L1-1)

Size (oz)	Cost (\$)
6	0.89
8	1.04
10	1.69
32	4.79

- A. 6 oz C. 10 oz
 B. 8 oz D. 32 oz

5. _____

6. What is the constant of proportionality of the linear function? (L1-9)

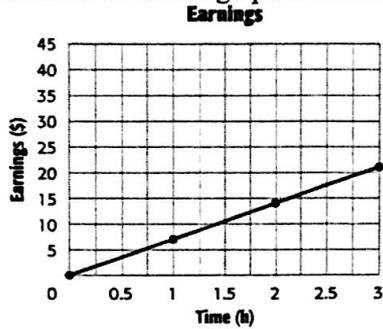
Game, x	3	4	5	6
Score, y	24	32	40	48

6. _____

- F. 5 G. 8 H. 12 I. 18

7. The graph shows the amount of money Amy earns each hour she works. Which statement about the graph is *not* true? (L1-5)

7. _____



- F. The graph shows a proportional relationship.
 G. The unit rate is $\frac{\$15.00}{\text{hour}}$
 H. The unit rate is $\frac{\$7.50}{\text{hour}}$.
 I. The line is straight.

Write your answer for the correct answer in the blank at the right of each question.

8. The table shows the cost for ordering a certain number of tacos. What is the value of x if the cost is proportional to the number of tacos ordered? (L1-4)

8. _____

Tacos Ordered	2	3	4	6
Cost	\$2.60	\$3.90	\$5.20	x

9. Ian runs at a speed of 3 yards per second. About how many miles per hour does Ian run? Write your answer in fraction form. (L1-3) *** Memorize the formula! $\frac{A}{B} \times \frac{C}{A} \times \frac{B}{D}$

9. _____

10. Lindsey can jog $3\frac{2}{5}$ miles in $\frac{7}{8}$ hour. Find her average speed in miles per hour. Write your answer in fraction form. (L1-2)

10. _____