## Math 7- Chapter-1 Practice test

SCORE \_\_\_\_

Be sure to show your work on each question.

1. What is the unit rate if there are 92 miles driven using 4 gallons of gas?

<u>23</u> 1.\_\_\_\_\_

2. What is the Constant Rate of Change of the table below?

2. 35 miles per hour

Hours	2	4	6	8
Miles	70	140	210	280

- MILES
- 79 = 35

3. What is the value of y in the proportion  $\frac{3}{16} = \frac{9}{y}$ ?

3. 48

4. Which size package of pasta shown in the table has the lowest unit price?

0. 32375

5. The table shows the cost for ordering a certain number of pies. What is the value of x if the cost is proportional to the number of pies ordered?

Pizzas Ordered	2	3	4	5
Cost	\$14.50	\$21.75	\$29.00	х

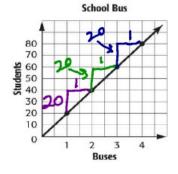
6. What is the Constant Rate of Change of the linear function?

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

CONSTANT RATE OF CHANGE = 
$$\frac{40}{x}$$
 =  $\frac{8}{3}$  =  $\frac{40}{3}$  =  $\frac{8}{5}$  =  $\frac{40}{5}$  =  $\frac{8}{7}$ 

7. What is the Constant Rate of Change of the graph below?





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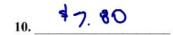
**8.** What is the unit rate for \$120 for 8 hours?

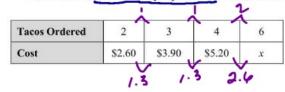
8.\_\_\_\_\_\_\_\_

9. What is the unit rate for 8 glasses of water every 24 hours?

$$\frac{8}{24} = \frac{1}{3}$$

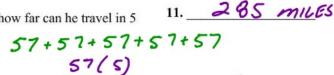
- 9. 3 GLASSES
  PER HOUR
- **10.** The table shows the cost for ordering a certain number of tacos. What is the value of *x* if the cost is proportional to the number of tacos ordered?





$$\frac{2.60}{2} = \frac{1.30}{1}$$

11. Sanjay can travel 342 miles in 6 hours. At this rate, how far can he travel in 5 hours?  $\frac{342}{6} = \frac{57}{1}$  57 + 57 + 57 +



12. What is the Slope of the line?

