

## 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?

1. \_\_\_\_\_

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

2. \_\_\_\_\_ miles per hour

|              |    |     |     |     |
|--------------|----|-----|-----|-----|
| <b>Hours</b> | 2  | 4   | 6   | 8   |
| <b>Miles</b> | 70 | 140 | 210 | 280 |

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

3. \_\_\_\_\_

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

| <b>Size (oz)</b> | <b>Cost (\$)</b> |
|------------------|------------------|
| 3                | 0.99             |
| 8                | 2.59             |
| 16               | 5.59             |
| 32               | 11.89            |

4. \_\_\_\_\_

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?

5. \_\_\_\_\_

|                       |         |         |         |     |
|-----------------------|---------|---------|---------|-----|
| <b>Pizzas Ordered</b> | 2       | 3       | 4       | 5   |
| <b>Cost</b>           | \$14.50 | \$21.75 | \$29.00 | $x$ |

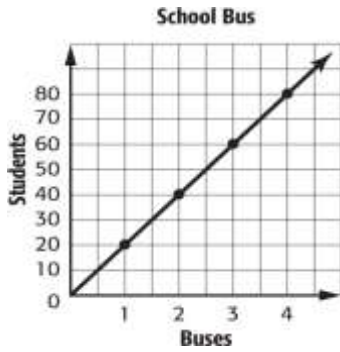
6. What is the **Constant Rate of Change** of the linear function?

6. \_\_\_\_\_

|                              |    |    |    |    |
|------------------------------|----|----|----|----|
| <b>Game, <math>x</math></b>  | 3  | 4  | 5  | 6  |
| <b>Score, <math>y</math></b> | 24 | 32 | 40 | 48 |

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

7. \_\_\_\_\_ students per bus



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?

9. \_\_\_\_\_

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?

10. \_\_\_\_\_

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

11. Sanjay can travel 342 miles in 6 hours. At this rate, how far can he travel in 5 hours?

11. \_\_\_\_\_

12. What is the **Slope** of the line?

12. \_\_\_\_\_

