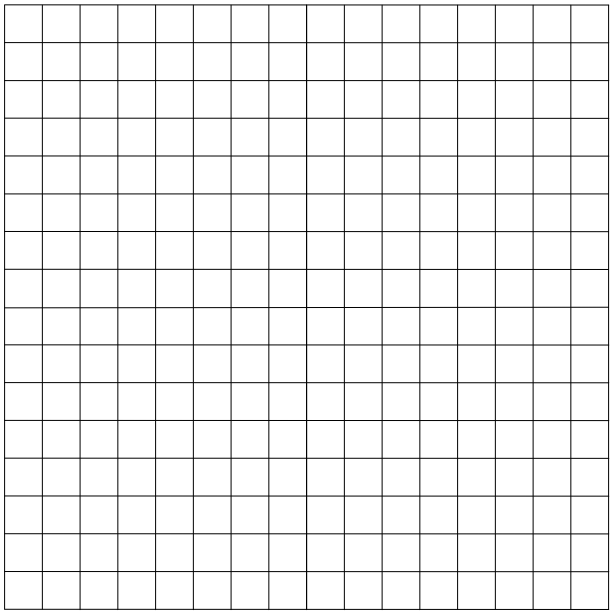
Algebra I Worksheet #6 Unit 8 page 1 _____

Bill walks for **2 minutes** at a constant speed of **3.5 feet per second**. Let t represent his walking time (in **seconds)** and d(t) represent the distance he has walked (in **feet)**. Answer each of the following. Show your process neatly organized.

1. Make a table giving t and d(t) every 20 seconds from t = 0 to the end of the walk.

2. Graph function d.



3. Write an equation giving d(t) in terms of t. _____

4. Write an inequality to describe the domain of function d. _____

5. Write an inequality to describe the range of function d. _____

6. Evaluate d(70). What does d(70) represent in terms of the problem?

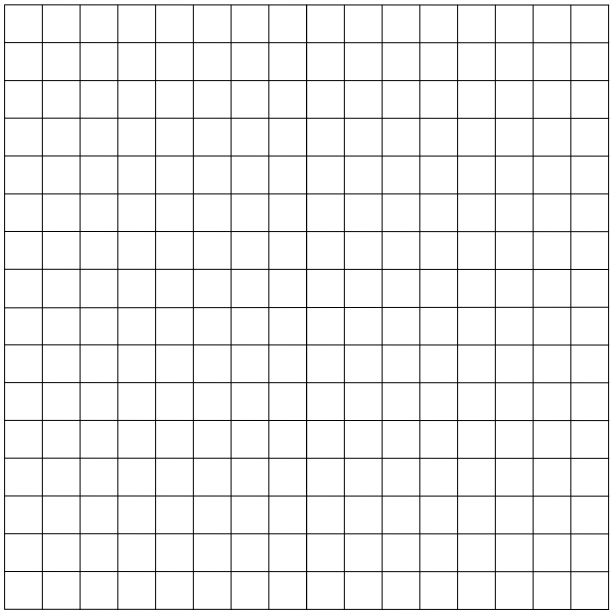
7. If d(t) = 70, then find the value of t. Describe what this value of t represents in terms of the problem.

Algebra I Worksheet #6 Unit 8 page 2

Nancy bikes for 3 hours at a constant speed of 16 miles per hour. Let t represent her biking time (in **hours)** and D(t) represent the distance she has gone (in **miles)**. Answer each of the following. Show your process neatly organized.

8. Make a table giving t and D(t) every **half hour** from t = 0 to the end of the bike ride.

9. Graph function D.



10. Write an equation giving D(t) in terms of t. _____

11. Write an inequality to describe the domain of function D. _____

12. Write an inequality to describe the range of function D. _____

13. Evaluate D(2.25). What does D(2.25) represent in terms of the problem?

14. If D(t) = 20, then find the value of t. Describe what this value of t represents in terms of the problem.