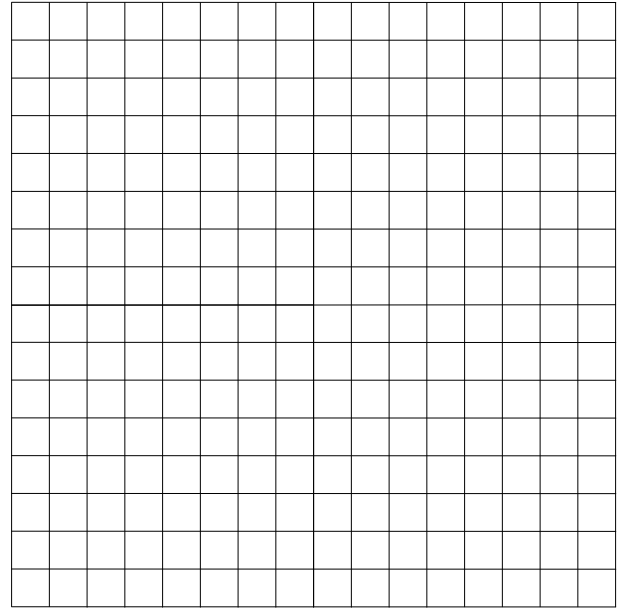


Algebra I Worksheet #5 Unit 8 page 1 _____

Jane walks for **1 minute** at a constant speed of **4 feet per second**. Let t represent her walking time (in **seconds**) and $d(t)$ represent the distance she has walked (in **feet**). Answer each of the following. Show your process neatly organized.

1. Make a table giving t and $d(t)$ every 10 seconds from $t = 0$ to $t = 60$.

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 $d(20)$. What does $d(20)$ represent in terms of the problem?

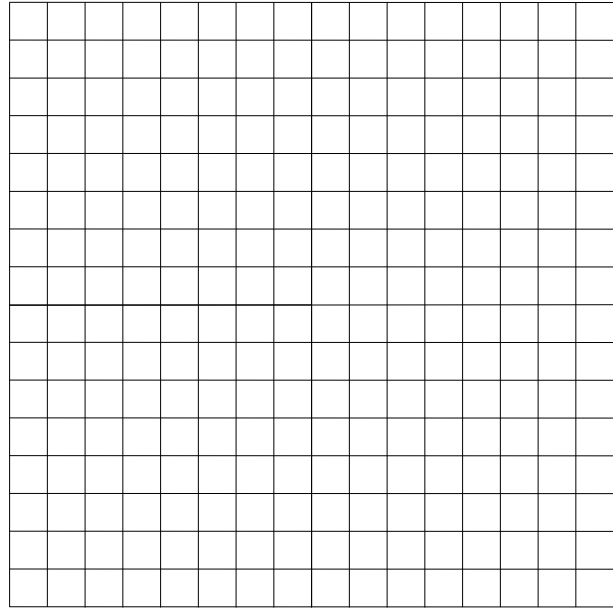
7. If $d(t) = 20$, then find the value of t . Describe what this value of t represents in terms of the problem.

Algebra I Worksheet #5 Unit 8 page 2

Harry bikes for 2 hours at a constant speed of 12 miles per hour. Let t represent his biking time (in **hours**) and $D(t)$ represent the distance he 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 $t = 2$.

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 $D(.75)$. What does $D(.75)$ represent in terms of the problem?

14. If $D(t) = 18$, then find the value of t . Describe what this value of t represents in terms of the problem.