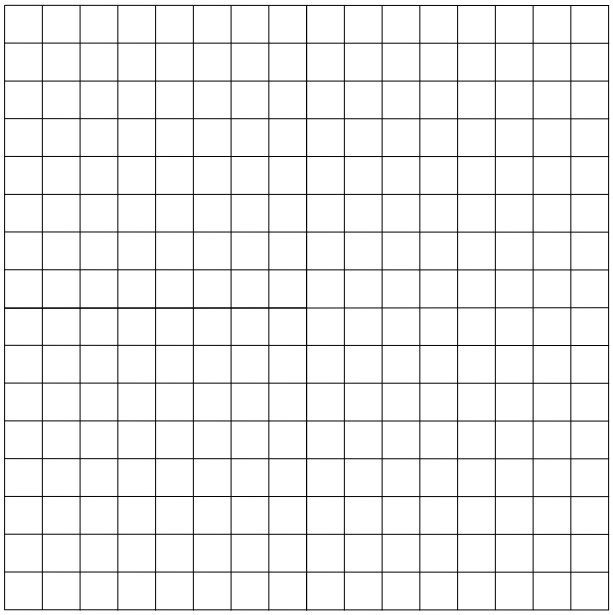
Algebra II Class Worksheet #3 Unit 3 page 1 _____

John walks for **2 minute**s at a constant speed of **3 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 t = 120.

2. Graph function d.



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

4. What is the domain of function d?

_____

5. What is the range of function d?

_____

6. Evaluate d(60). What does d(60) represent in terms of the problem?

7. If d(t) = 60, then find the value of t. Describe what this value of t represents in terms of the problem.

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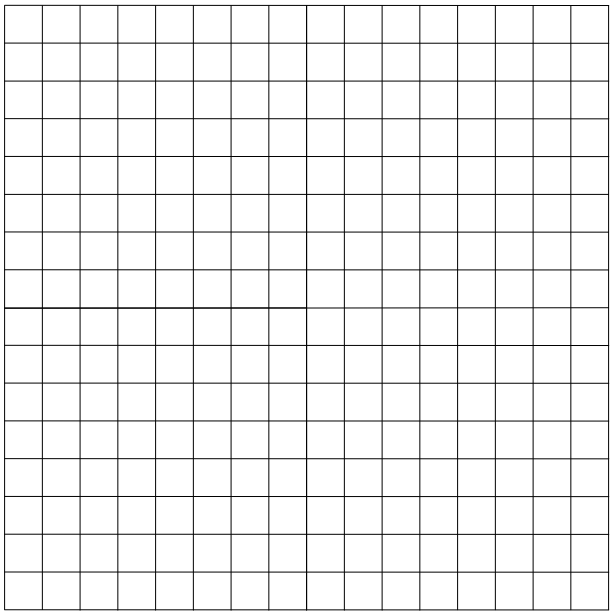
Mary bikes for 3 hours at a constant speed of 10 miles per hour. Let t represent her biking time (in **hours)** and D(t) represent the distance she has gone (in **miles)**. Answer each of the following. Show your process neatly organized.

8. Make a table giving t and D(t) every half hour from t = 0 to t = 3.

9. Graph function D.



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

11. What is the domain of function D?

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12. What is the range of function D?

_____

13. Evaluate D(1.2). What does D(1.2) represent in terms of the problem?

14. If D(t) = 15, then find the value of t. Describe what this value of t represents in terms of the problem.