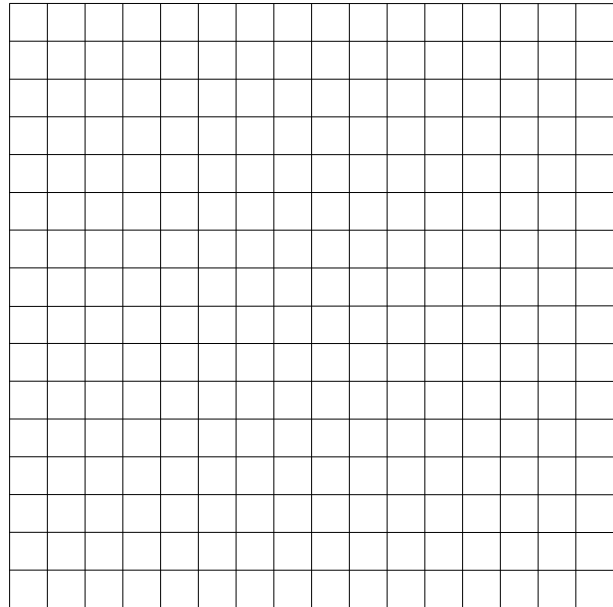


General Algebra II Worksheet #5 Unit 6 page 1 _____

Mary has a part-time job. She can work up to 30 hours a week. She gets paid \$7.50 per hour. Let t represent the number of hours she works. Let $P(t)$ represent her total pay.

1. Make a table giving t and $P(t)$ every 5 hours from $t = 0$ to $t = 30$.

2. Graph function P .



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

4. What is the domain of function P ?

5. What is the range of function P ?

6. Evaluate $P(12)$. What does $P(12)$ represent in terms of the problem?

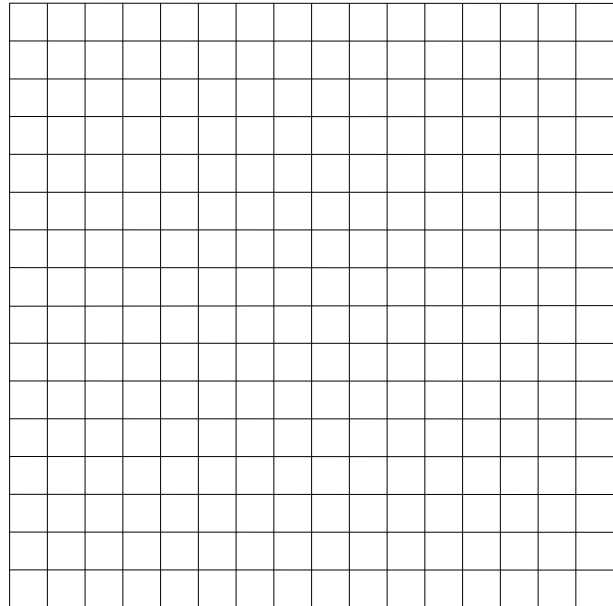
7. If $P(t) = 30$, then find the value of t . Describe what this value of t represents in terms of the problem.

General Algebra II Worksheet #5 Unit 6 page 2

Fantasy Island is 32 miles due east of Marine Bay. A Ferry sails from Marine Bay to Fantasy Island at a constant speed of 8 miles per hour. Let t represent the time in hours that the Ferry has been sailing. Let $D(t)$ represent the distance in miles that the Ferry is from Fantasy Island.

8. Make a table giving t and $D(t)$ every hour from $t = 0$ until the Ferry reaches Fantasy Island.

9. Graph function D .



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

11. What is the domain of function D ?

12. What is the range of function D ?

13. Evaluate $D(1.5)$. What does $D(1.5)$ represent in terms of the problem?

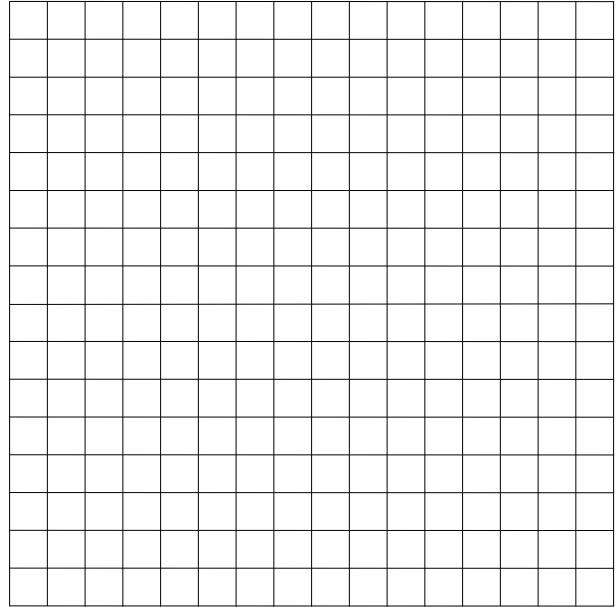
14. If $D(t) = 12$, then find the value of t . Describe what this value of t represents in terms of the problem.

General Algebra II Worksheet #5 Unit 6 page 3

Sue has a part-time job. She can work up to 24 hours a week. She gets paid \$9 per hour. Let t represent the number of hours she works. Let $P(t)$ represent her total pay.

15. Make a table giving t and $P(t)$ every 4 hours from $t = 0$ to $t = 24$.

16. Graph function P .



17. Write an equation giving $P(t)$ in terms of t . _____

18. What is the domain of function P ?

19. What is the range of function P ?

20. Evaluate $P(10)$. What does $P(10)$ represent in terms of the problem?

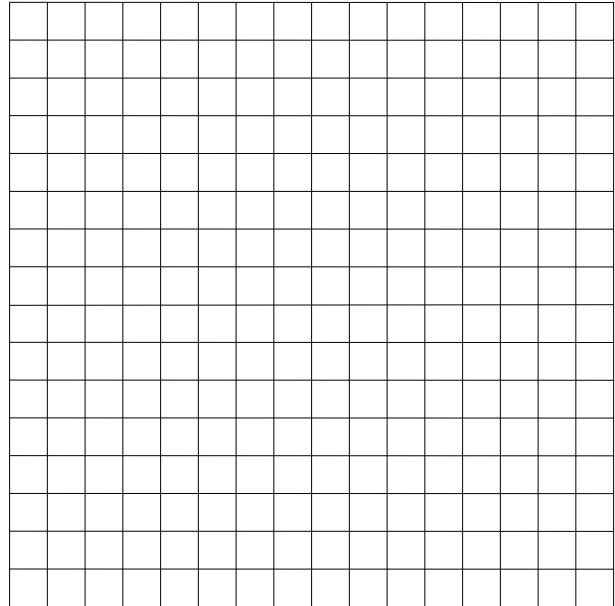
21. If $P(t) = 45$, then find the value of t . Describe what this value of t represents in terms of the problem.

General Algebra II Worksheet #5 Unit 6 page 4

Joe bikes from his house to his cousin's house, a distance of 18 miles, at a constant speed of 12 miles per hour. Let t represent the time in hours that Joe has been biking. Let $D(t)$ represent the distance in miles that Joe is from his cousin's house.

22. Make a table giving t and $D(t)$ every half hour from $t = 0$ until Joe reaches his cousin's house.

23. Graph function D .



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

25. What is the domain of function D ?

26. What is the range of function D ?

27. Evaluate $D(0.5)$. What does $D(0.5)$ represent in terms of the problem?

28. If $D(t) = 9$, then find the value of t . Describe what this value of t represents in terms of the problem.