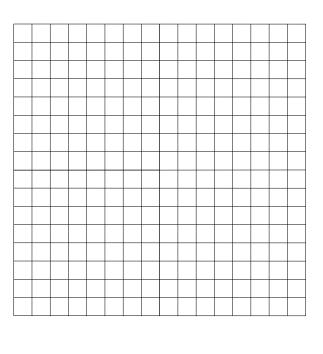
Algebra I Class Worksheet #4 Unit 8 page 1

Tom has a part-time job. He can work up to 20 hours a week. He gets paid \$8.00 per hour. Let t represent the number of hours he works. Let P(t) represent his total pay.

- 1. Make a table giving t and P(t) every 4 hours from t = 0 to t = 20.
- 2. Graph function P.



- 3. Write an equation giving P(t) in terms of t.
- 4. Write an inequality to describe the domain of function P.
- 6. Evaluate P(8). What does P(8) represent in terms of the problem?

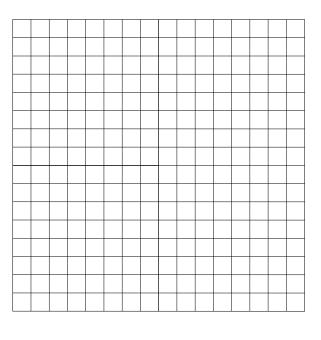
5. Write an inequality to describe the range of function P.

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

Algebra I Class Worksheet #4 Unit 8 page 2

Bird Island is 30 miles due south of Blue Fin Bay. A Ferry sails from Blue Fin Bay to Bird Island at a constant speed of 12 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 Bird Island**.

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

13. Evaluate D(1). What does D(1) represent in terms of the problem?

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

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