Algebra II   Class Worksheet #4   Unit 3   page 1   _____
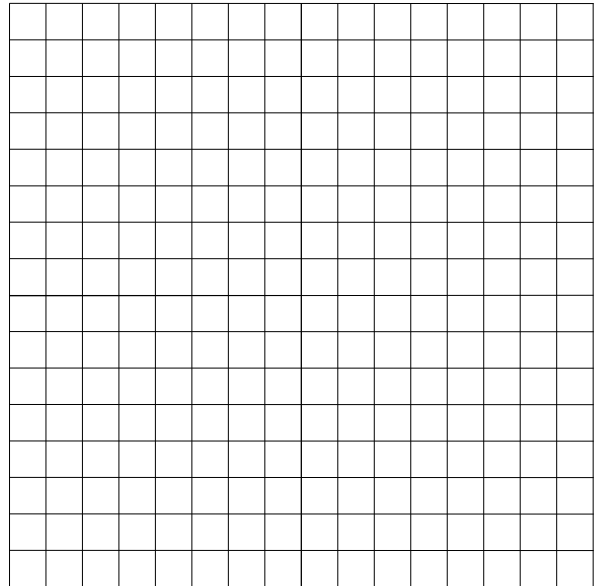
Tom has a part-time job. He can work up to 20 hours a week. He gets paid $8.00 per hour. Let t represent the number of hours he works. Let P(t) represent his total pay.

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. What is the domain of function P?

_____

5. What is the range of function P?

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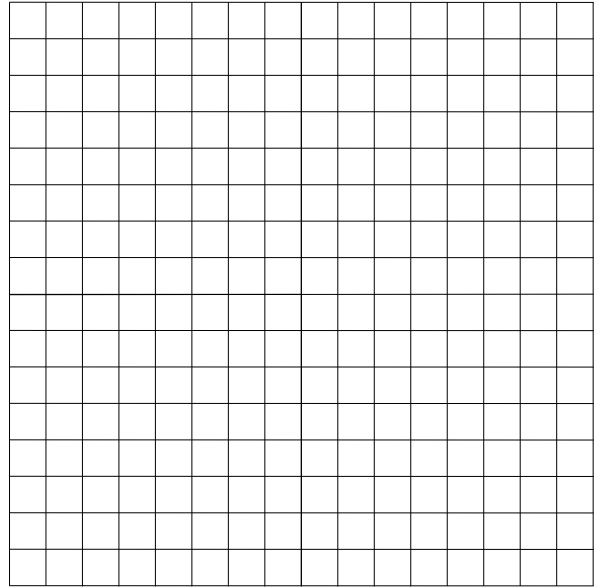6. Evaluate P(8). What does P(8) represent in terms of the problem?

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

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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. What is the domain of function D?

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12. What is the range of function D?

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13. Evaluate D(1). What does D(1) 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.