

# MATH SNACKS

## Ratey the Math Cat Answer Key



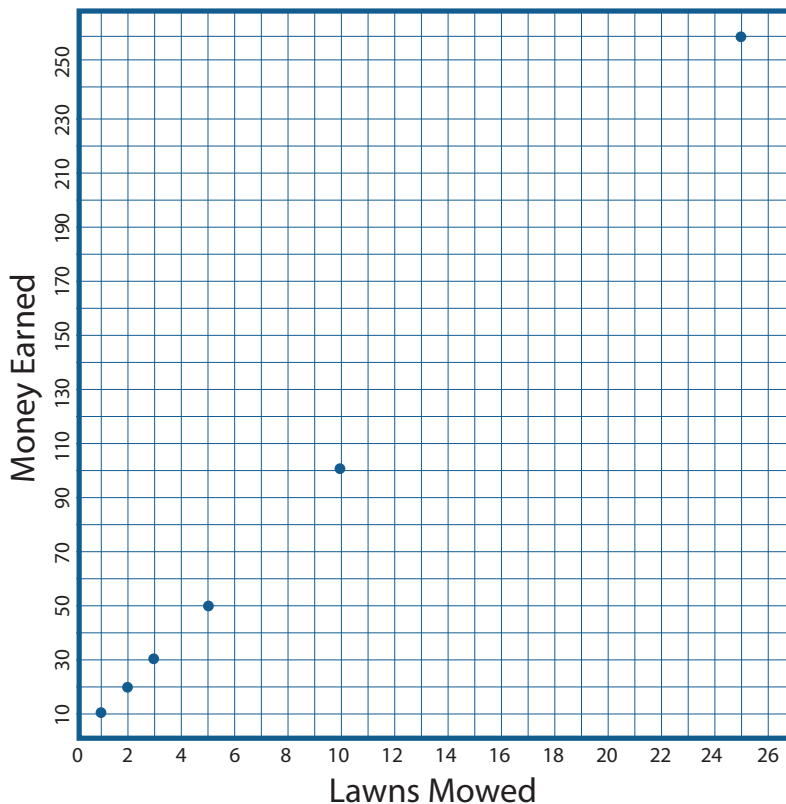
Watch the animation, *Ratey the Math Cat* and complete these activities. The animation and an instructor guide are available on iTunes U (search "Math Snacks") and at [mathsnacks.org](http://mathsnacks.org)



1. In the Ratey the Cat animation, there is a guy who earns \$10 *PER* lawn. Complete the table below that represents money earned *PER* lawn.

Lawns Mowed	Money Earned
1	10
2	20
3	30
5	50
10	100
25	250

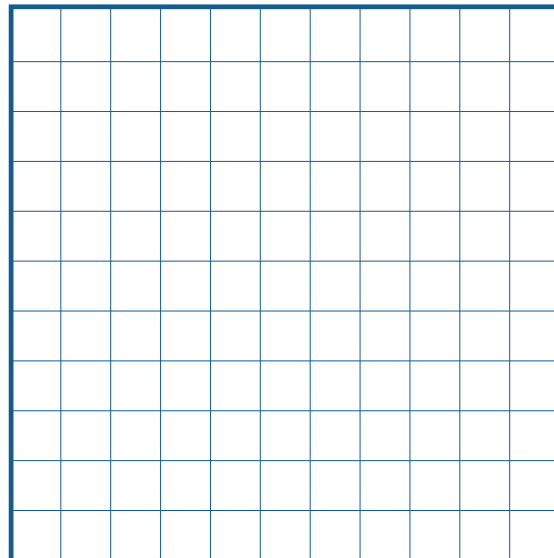
A. Plot the data from question 1 on the grid below.



2. List five different rates, from your life, using the word *PER*, such as “2 hours of video games *PER* day.”

*ANSWER: will vary. Make sure students label the table and graph appropriately.*

A. Using one of the rates you listed in question 2, fill out a table and complete a graph that represents your rate. Make sure to label the table and the graph appropriately and that the scale on your x and y axis allows you to plot all of your points.



3. Questions about nutritional information.

*Note: Please stress the importance of labeling the units for all problems.*

**Nutrition Facts** Serving Size 4 oz.  
(113g). Serving Per Container 4

**Amount Per Serving**

**Calories** 280      Calories from Fat 130

% Daily Value\*

**Total Fat** 14g      22%

Saturated Fat 3.5g      18%

Trans Fat 2.5g

**Cholesterol** 120 mg      40%

**Sodium** 640mg      27%

**Total**      4%

**Carbohydrate** 13g

Dietary Fiber 1g      4%

Sugars 0g

**Protein** 24g

Calories per gram

Fat 9 • Carbohydrate 4 • Protein 4

A. How many servings are there *PER* container?

*ANSWER: 4 servings*

B. The label says there are 280 calories *PER* serving. How many calories are there *PER* container?

*ANSWER: 1120 calories*

C. If this container of food was divided equally among 8 people:

1. How many grams of fat *PER* person are there?

*ANSWER: (14g)(4 servings)=56 grams per package.  
56/8=7 grams per person.*

2. How many grams of protein *PER* person are there?

*ANSWER: (24)(4)=96 grams per package.  
96/8=12 grams per person*

**Bonus: How many protein calories are there *PER* serving?**

*ANSWER: 96 calories. 24 protein grams x 4 calories per gram. 24 x 4=96 calories*