### Lesson 3 Practice Problems

1. Here is a graph of the proportional relationship between calories and grams of fish:
* 
	1. Write an equation that reflects this relationship using $x$ to represent the amount of fish in grams and $y$ to represent the number of calories.
	2. Use your equation to complete the table:

| * + grams of fish
 | * + number of calories
 |
| --- | --- |
| * + 1000
 |  |
|  | * + 2001
 |
| * + 1
 |  |

1. Students are selling raffle tickets for a school fundraiser. They collect $24 for every 10 raffle tickets they sell.
	1. Suppose $M$ is the amount of money the students collect for selling $R$ raffle tickets. Write an equation that reflects the relationship between $M$ and $R$.
	2. Label and scale the axes and graph this situation with $M$ on the vertical axis and $R$ on the horizontal axis. Make sure the scale is large enough to see how much they would raise if they sell 1000 tickets.
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2. Describe how you can tell whether a line’s slope is greater than 1, equal to 1, or less than 1.
* (From Unit 2, Lesson 10.)
1. A line is represented by the equation $\frac{y}{x−2}=\frac{3}{11}$. What are the coordinates of some points that lie on the line? Graph the line on graph paper.
* (From Unit 2, Lesson 12.)



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