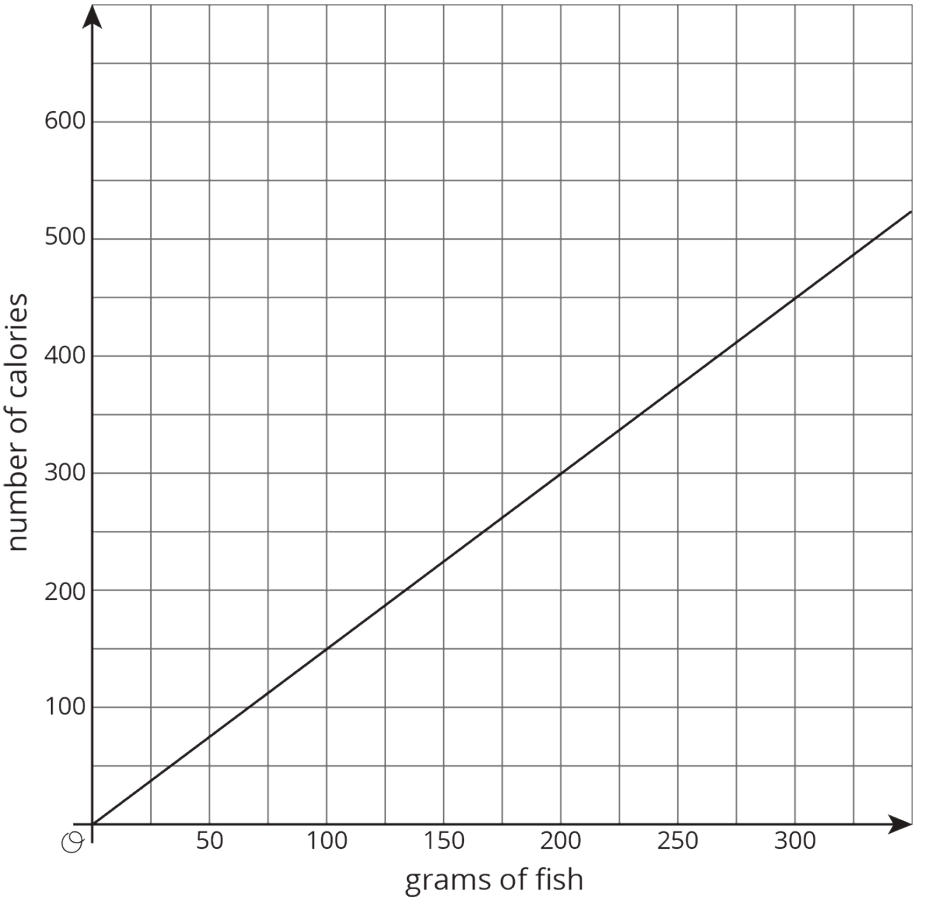
# Lesson 3 Practice Problems

1. Here is a graph of the proportional relationship between calories and grams of fish:




a. 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.

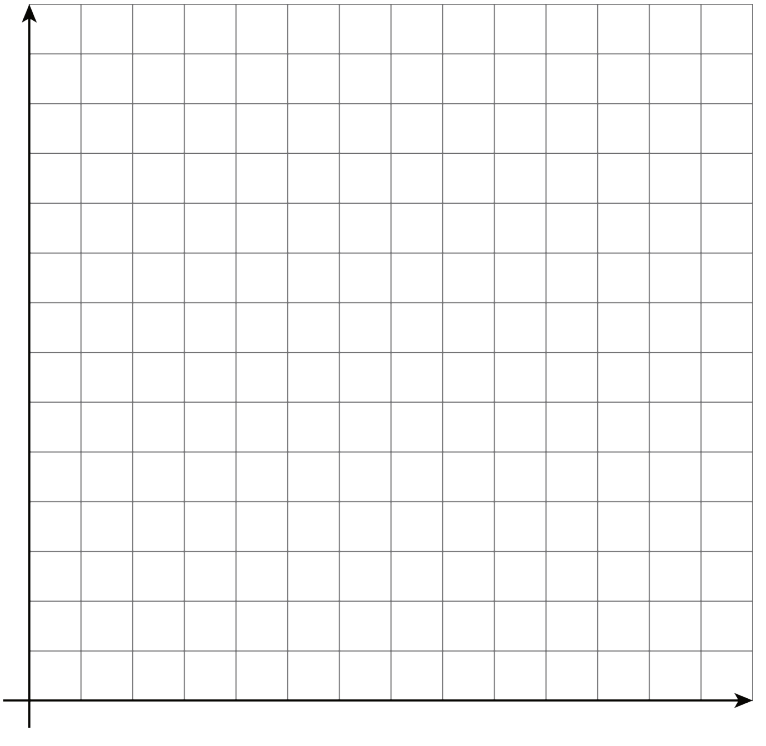
b. Use your equation to complete the table:

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

2. Students are selling raffle tickets for a school fundraiser. They collect $24 for every 10 raffle tickets they sell.

   a. 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 $R$.

   b. 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.



3. 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.)

4. 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.)