

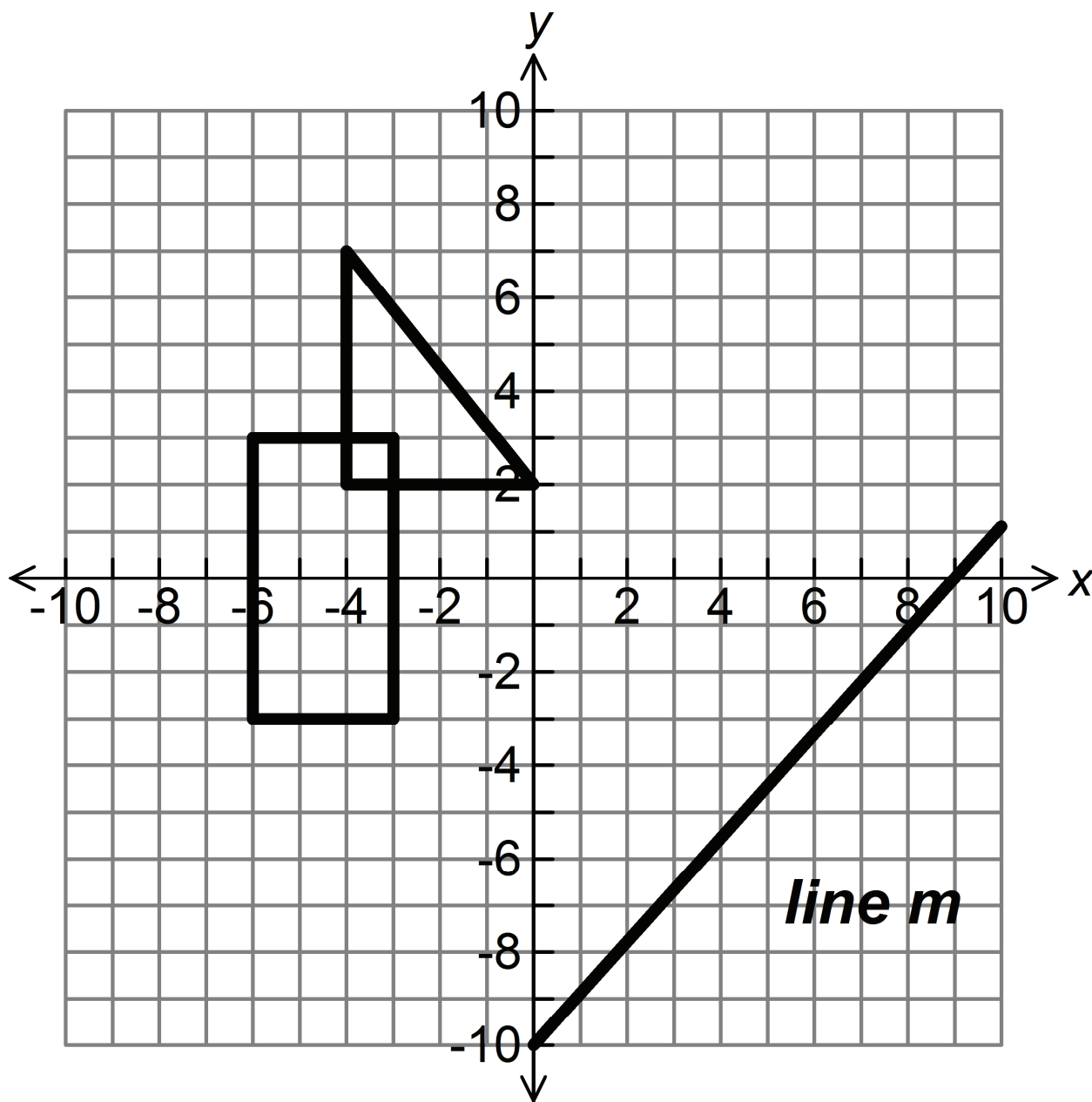


Student Name: _____ Date: _____

Planes, Trains, and Automobiles

Use the graph on the next page to help you answer each question as true or false. Begin with problem 1. Your answer will direct you to the next question. If you answer all of the questions correctly, your final answer should lead you back to the first question.

Problem Number	Question	True or false?	If your answer is true , go to this problem number.	If your answer is false , go to this problem number.
1	All of the vertices of the triangle are in Quadrant II.		8	7
2	$(6, -2)$ is located on line m .		9	4
3	$\left(-3\frac{1}{2}, 2\frac{1}{2}\right)$ is located within the triangle and the rectangle.		6	5
4	$(-7.5, 4.5)$ is located in Quadrant III.		6	8
5	$(0, 5)$ is located on the y -axis.		2	10
6	Line m crosses the y -axis at $(0, -9)$.		1	9
7	$(2, 0)$ is a vertex of the triangle.		2	5
8	$\left(-6, 1\frac{3}{4}\right)$ is located on the rectangle.		10	3
9	$(3, -2)$ is below the x -axis.		1	4
10	$(1, -9)$ is located on the line m .		3	7



Communicating About Mathematics

What is true about all of the x-values and all of the y-values in Quadrant III? Explain your reasoning.