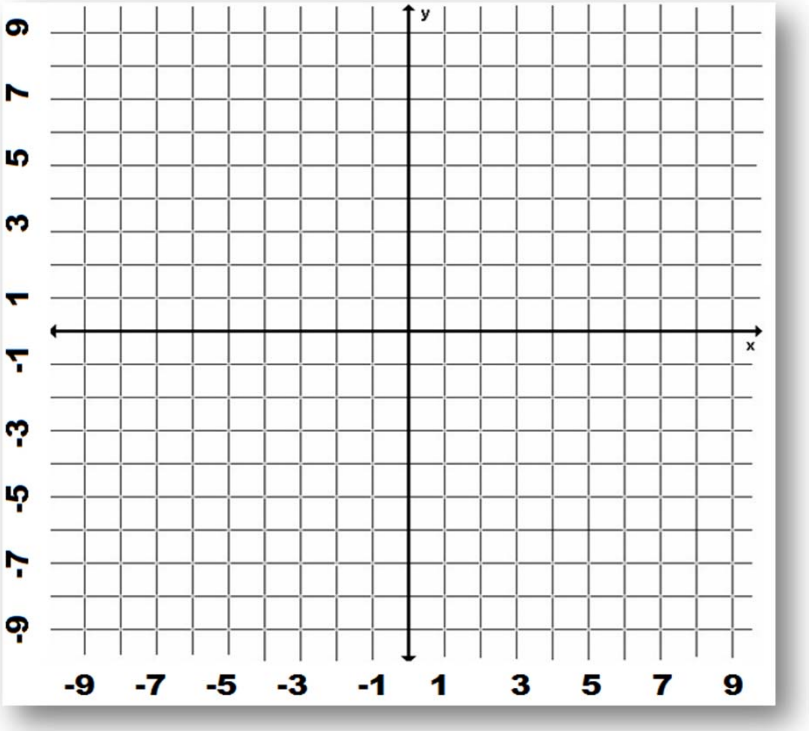
MasterMath

Name _____

Inverse Variation Date _____

1. **Graph this equation: 5xy = 10**

x	y



2. **Regarding the equation and graph in Question 1:**

What are the Asymptotes?	
When x = 0, what does y equal?	
What is the Domain or the function?	
What is the Range or the function?	
What is the Constant of Variation?	
What do we call this type of curve?	

3. **In a formula, *Z* varies inversely as *p*. If Z is 200 when p = 4, find Z when p = 10.**

4. **In kick boxing, it is found that the force, *f*, needed to break a board, varies inversely with the length, *l*, of the board. If it takes 5 lbs of pressure to break a board 2 feet long, how many pounds of pressure will it take to break a board that is 6 feet long?**

5. **A biker's speed (s) determines the amount of time (t) it takes to travel 1 mile (assume the biker travels at a constant rate). Write an equation to describe this relationship.**