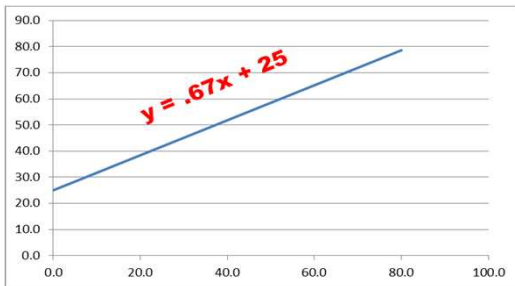


MasterMath

Name _____
Date _____

Continuous vs Discrete Domains

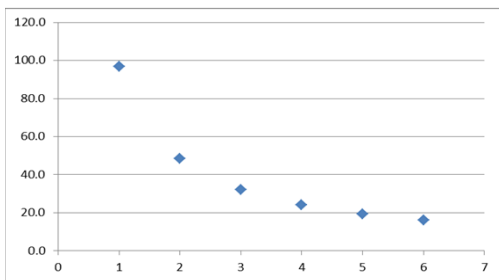
1. Does this graph represent a Continuous or a Discrete Domain?



Continuous

2.

Big State University studied the idea that the gas mileage (m) of a vehicle decrease as the number of wheels (w) on the vehicle decreased. They came up with a function that they felt described the relationship: $m = 96.75 \div w$. Is there a discrete or a continuous domain?



Discrete

3. The equation $f = 0.305m$ can be used to convert meters into feet. Is the Domain of this function Discrete or Continuous?

Continuous

4. Your teacher says that your tomatoe plant will grow 1.25" taller each month. It is now 6' tall. Write a formula that will tell you how tall your plant is at any time in the future. Is there a continuous or a discrete domain?



formula	$y = 1.25x + 6$
Discrete or Continuous?	Continuous

5. You can buy tee shirts for \$12 or hats for \$15. Create an equation showing how much you will spend (y) for any combination of hats (h) and tee shirts (t) that you purchase. Is the domain discrete or continuous?

formula	$y = 12t + 15h$
Discrete or	Discrete