

Number: _____ Name: _____ Period: _____

#1) Which of the following equations are proportional?

- a. $y = \frac{1}{4}x$
- b. $y = 3x - 6$
- c. $y = \frac{2}{3}x + 0$
- d. $y = 4x$

#2) Fill in the missing values to make the table proportional.

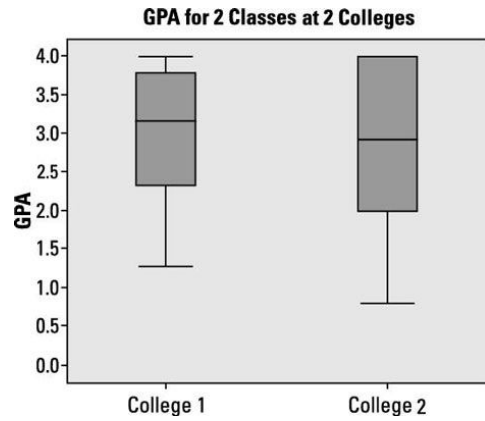
x	y
12	3
	5
24	
	10

#3) You are painting your room the perfect shade of sky blue. To make this perfect shade it is 1 part white to 3 parts blue. You accidentally mix up this proportion and make a mixture that is 1 part blue and 3 parts white. How much more of each color do you need to **ADD** to get the perfect shade of sky blue?

#4) You start a new job doing yard work for your neighbor. She offers to pay you \$10 an hour and \$20 after the first week you start as a starting bonus. Write an equation to represent the relationship between cost, y , and the number of hours worked, x . Is it proportional? Explain why or why not.

#5) Which college GPA has the higher median?

#6) Which college GPA has more variance?



#7) Use the image to the right to find the following:

- a. $m \angle ACE$ _____
- b. $m \angle ECL$ _____
- c. $m \angle ACL$ _____
- d. $x =$ _____

