

Daily HW Check:

Box 1 : x and y intercepts # 6

Box 2 : x and y intercepts # 7

Box 3 : graphing equations in any form #2

Box 4 : graphing equations in any form #12

Go to my website to correct answers

Comparing Linear Functions

1) Determine what the question is asking you to compare:

slope or y-intercept.

2) Find the rate of change (slope) or y-intercept.

3) Compare~Make sure you answer the question!!!!

Recall: There are five inequality symbols

$<$ - is less than

$>$ - is greater than

\leq - is less than or equal to

\geq - is greater than or equal to

\neq - is not equal to

1. The Metropolis Zoo recently celebrated the birth of two new baby pandas!

Mochi the panda cub has been measured and weighed each week since she was born.

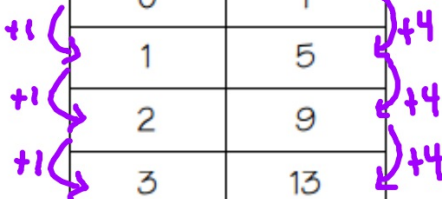
$$y = mx + b$$

$$y = 4x + 1$$

$$b = 1$$

Weeks	Weight
0	1
1	5
2	9
3	13

$$m = \frac{\Delta y}{\Delta x} = \frac{4}{1} = 4$$



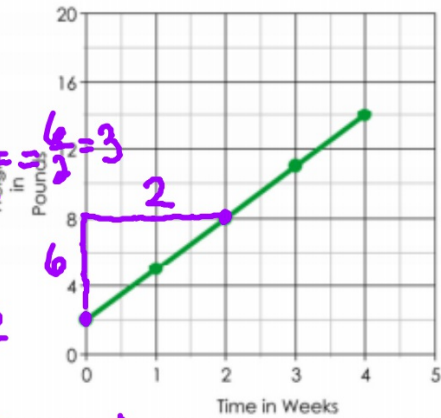
Mochi's brother is Kappa. His weight has been charted on the graph below.

$$y = 3x + 2$$

Panda Growth

$$m = \frac{\Delta y}{\Delta x} = \frac{6}{2} = 3$$

$$b = 2$$



- Which panda was heavier when they were born? (y-intercept)
Kappa because 2 is greater than 1.
- Which panda is growing faster? (slope)
Mochi because 4 is greater than 3.
- Which panda will weigh more at five weeks?
 $y = 4x + 1 = 4(5) + 1 = 21$ $y = 3x + 2 = 3(5) + 2 = 17$
Mochi because 21 is greater than 17.