Algebra 1 Bellwork Tuesday, February 2, 2016

Use this table and the graph given.

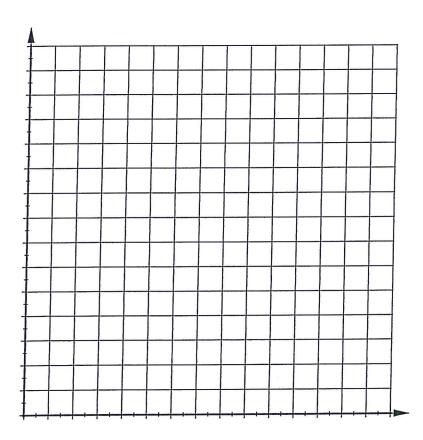
Age(yrs)	1	3	4	9	11	12
Length(cm)	15	21	28	52	75	83

- 1. Make a scatter plot of this data.
- 2. Draw a trend line. A trend line is a single line that passes through the "middle" of the data.
- 3. Use this trend line to make the following predictions.
- a) Estimate the length of a 6 year old snake.
- b) Estimate the age of a snake that is 110 cm long.
- 4. Pick two points on the trend line and write the equation of the trend line.

Points used:

Equation:

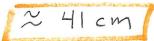
5. Use this equation to predict the age of a snake that is 200cm long.



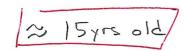
Tuesday, February 2, 2016 Answers Algebra 1 Bellwork Use this table and the graph given.

Age(yrs)	1	3	4	9	11	12
Length(cm)	15	21	28	52	75	83

- 1. Make a scatter plot of this data.
- 2. Draw a trend line. A trend line is a single line that passes through the "middle" of the data.
- 3. Use this trend line to make the following predictions.
- a) Estimate the length of a 6 year old snake.



b) Estimate the age of a snake that is 100 cm long.



4. Pick two points on the trend line and write the equation of the trend line.

Points used:

$$y-10 = 6.5(x-1)$$

 $y-10 = 6.5x-6.5$
 $y = 6.5x+3.5$

 $M = \frac{75 - 10}{1/1 - 1} = \frac{65}{10} = \frac{6.5}{10}$ 5. Use this equation to predict the age of a snake that is 200cm long.

