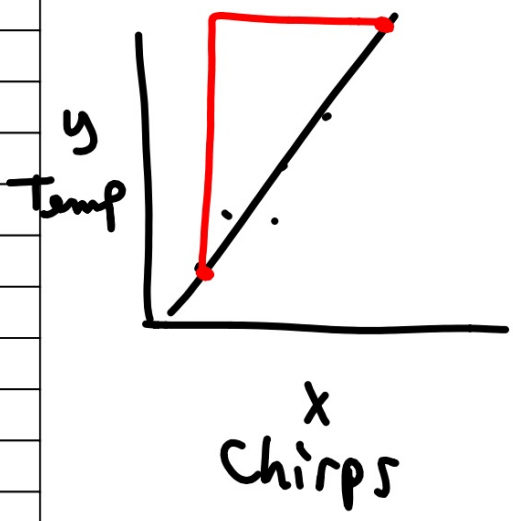
Algebra 2
Data Collection: crickets
Record data

(15 sec.) x indep. y dep.

$y = mx + B$

1.59
M = 1.6
1.5
4/3
1.75
9/5
1.2

Chirps (15 s.)	Temp °F	
14	54	
18	65	
36	89	
32	79	
23	68	
30	82	
10	? 47	#1
33	?	#2
29	?	#3



C $y = 1.59x + 31.72$

E $y = 1.59x + 31.74$

C $y = 1.75x + 29.5$

C $y = 1.6x + 31.6$

I $y = 1.75x + 29.5$

What do we know?

What might be interesting to find out?

B $y = 1.6x + 31.6$

C $y = \frac{9}{5}x + 28$

M $y = \frac{4}{3}x + 38.67$

Temp = 1.6 chirps + 31.6

Graph

Write the equation of the line of fit.
Use your equation to predict the temperature of the next three crickets.

temp = #chirps....

Homework:
Graph + equation (done in class)
Paragraph about this activity
Listen to a cricket tonight and use the # of chirps to predict the temp.

15s → est. temp