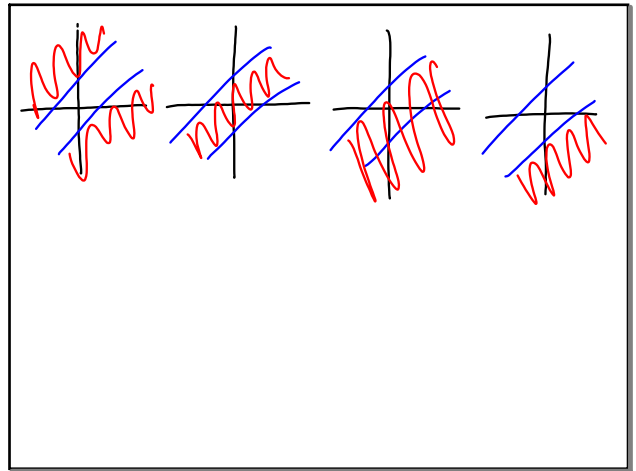


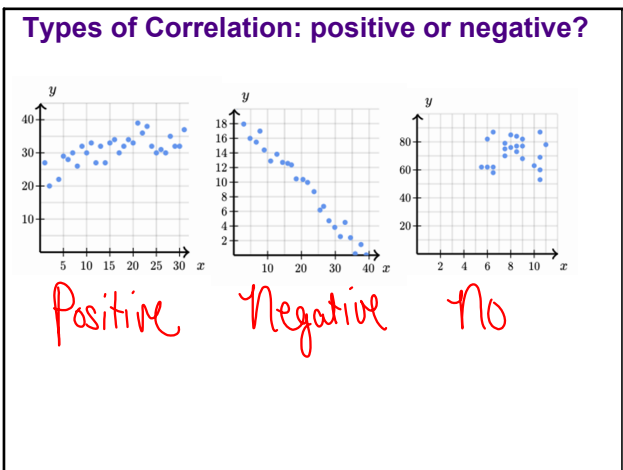
9-28-15

Scatterplots

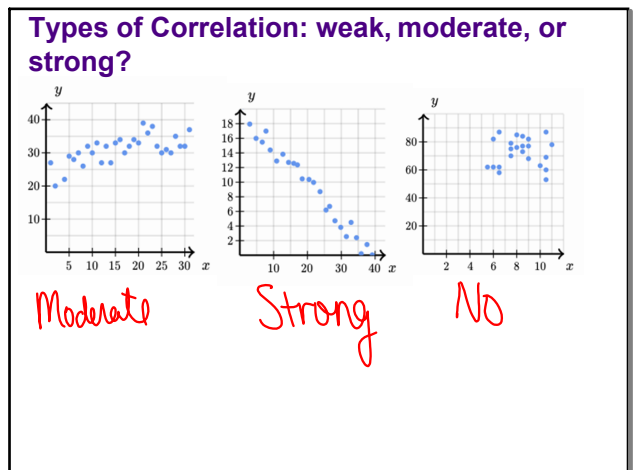


Sep 24-10:09 AM

Sep 28-9:27 AM

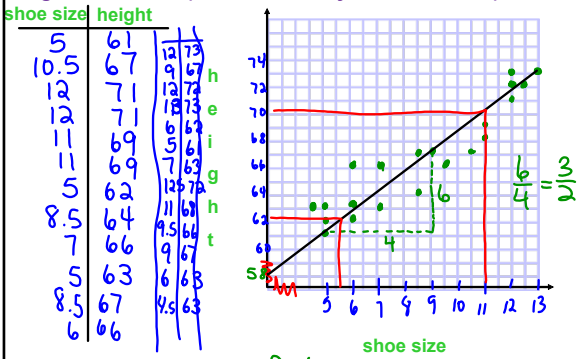


Sep 24-10:10 AM



Sep 24-10:10 AM

Let's make a scatterplot. We will use your shoe size and height in inches. (Girls add 2 to your shoe size.)



Is there a correlation? **Positive**

Can you draw a line of best fit?

What is the line? $y = \frac{3}{2}x + 58$

Can you predict the height of someone that wears a size 11 shoe? **70 in.**

Can you predict the shoe size of someone who is 62 inches tall? **5.5**

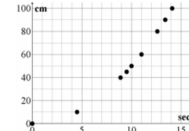
Sep 24-10:14 AM

Curve of Best Fit

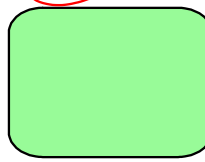
Ms. Hoang's class did an experiment by rolling a marble down different length slanted boards and timing how long it took. The results are shown below:

sec.	10	8.9	14.1	9.5	12.6	0	4.5	11	13.4
cm.	50	40	100	45	80	0	10	60	90

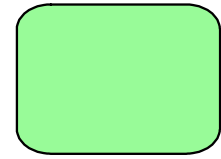
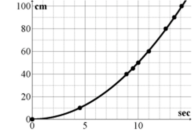
Draw a scatterplot...



Strong or weak correlation?
Positive or negative?



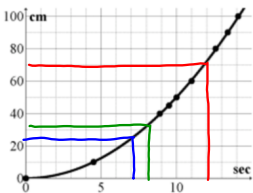
Now, let's draw a curve of best fit...



Sep 24-11:19 AM

Curve of Best Fit

We should be able to predict based off the curve/line of best fit...



1. How much time would it take to go 70cm? **12 sec**
2. How far will the marble most likely roll in 7sec? **25cm**
3. How much time would it take to go 32cm? **~8 sec**

Sep 24-1:42 PM

Conclusion

1. What does a positive correlation look like?
2. How do you make a scatterplot?
3. How do you predict on a scatterplot?
4. Questions???

Sep 24-10:22 AM

Assignment
Scatterplot Wkst

Sep 24-10:23 AM