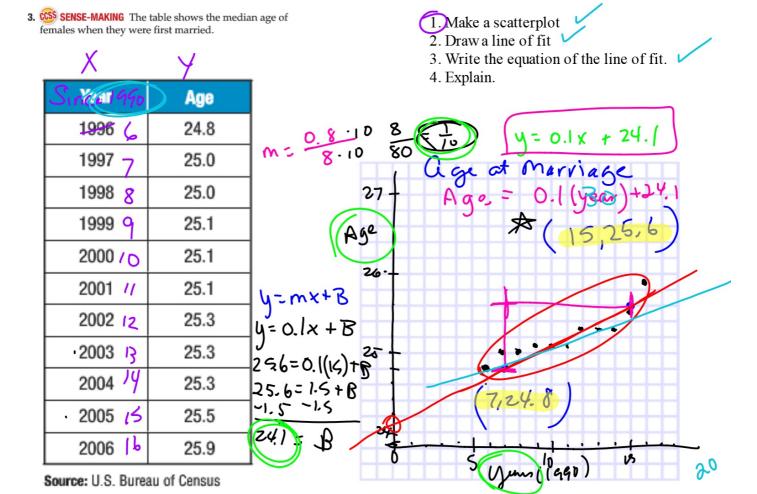
Algebra 1 4.5 Create scatterplots from data Write equations of best-fit lines from data slope-intercept form y = mx + 1activity: whiteboards

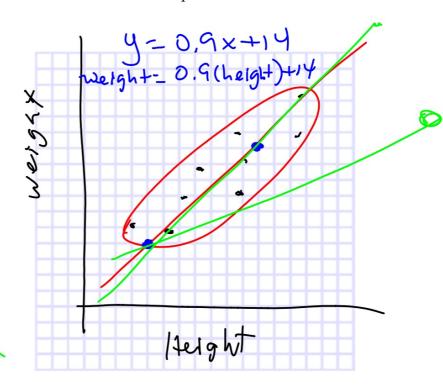


10. CSS SENSE-MAKING The Body Mass Index (BMI) is a measure of body fat using height and weight. The heights and weights of twelve men with normal BMI are given in the table at the right.

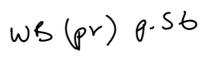
1. Make a scatterplo

- 2. Draw a line of fit
- 3. Write the equation of the line of fit.
- 4. Explain.

×	y				
Height (in.)	Weight (lb)				
62	115				
63	124				
65	120				
67	134				
67	140				
68	138				
68	144				
68	152				
69	147				
72	155				
73	168				
73	166				

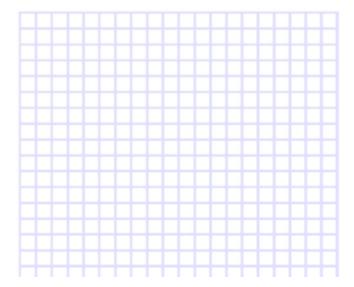


- 1. Make a scatterplot
- 2. Draw a line of (best) fit
- 3. Write the equation of the line of fit.
- 4. Explain.



GEYSERS The time to the next eruption of Old Faithful can be predicted by using the duration of the current eruption.

Duration (min)	1.5	2	2.5	3	3.5	4	4.5	5
Interval (min)	48	55	70	72	74	82	93	100



- 1. Make a scatterplot
- 2. Draw a line of (best) fit
- 3. Write the equation of the line of fit.
- 4. Explain.

ு Real-World Example 1 Best-Fit Line



MOVIES The table shows the amount of money made by movies in the United States.

Year	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Income (\$ billion)	7.48	8.13	9.19	9.35	9.27	8.95	9.25	9.65	9.85	10.21

