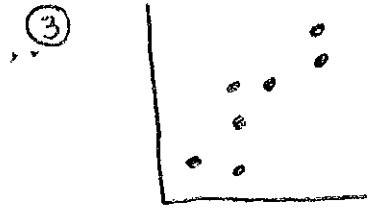
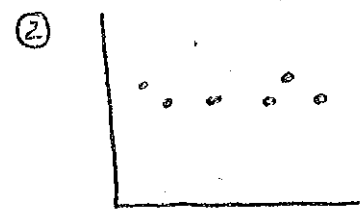


Do the data sets represent a positive, negative, or no correlation?



④ The type of car a person drives and the color of their hair. _____

⑤ The number of people working on a job and the hours to completion. _____

⑥ The number of costumers at Target and the amount of money made by Target. _____

⑦ The amount of time studying and grades. _____

⑧ Write an example of a negative correlation. _____

⑨

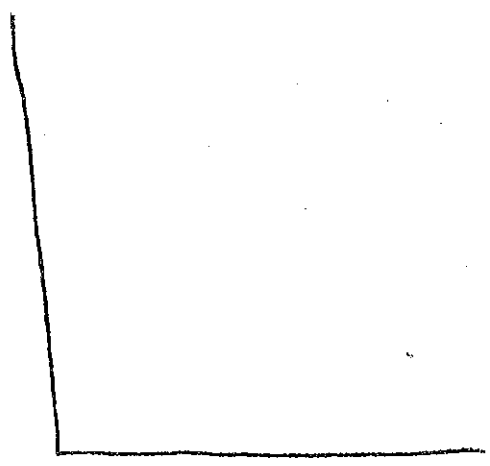
x	1	2	3	4
y	10	9	8	7

⑩

x	y
3	-8
8	-9
12	-12
15	-15
27	-27

⑪ Make a scatterplot

Temp.	Heat Bill
80	0
60	25
50	35
40	58
30	76
20	82



⑫ Use your graph to predict the heating bill at 10°.

⑬ Draw a line of fit on your graph.

Math 8 - Line of Best Fit

- (a) state the correlation
- (b) Write the equation for the line of best fit (Round to nearest hundredth)
- (c) Make a prediction,

①

X	Y
-1	5
-3	6
-8	16
-17	21
-20	23

(a) _____
 (b) _____
 (c) _____
 predict y if $x = -28$

②

Year	\$
1973	\$28
1984	\$29
1987	\$26
1995	\$30
2000	\$38

(a) _____
 (b) _____
 (c) _____
 predict y if $x = 2008$

③

X	-3	8	21	16	54	80
Y	24	16	10	13	0	-5

(a) _____
 (b) _____
 (c) _____
 predict y if $x = -20$

④

X	1	2	3	4	5	6
Y	-12	-9	-0.3	-0.1	3	1

(a) _____
 (b) _____
 (c) _____
 predict y if $x = 50$

⑤

time	Amount
1980	1,280,000
1985	2,100,000
1990	2,150,000
1995	2,700,000
2000	3,156,000

(a) _____
 (b) _____
 (c) _____
 predict x if $y = 5,000,000$

⑥

X	1	2	3	4	5
Y	985	980	750	641	432

(a) _____
 (b) _____
 (c) _____
 predict x if $y = 30$