Algebra 1 Name_____

HW56 Scatter Plots

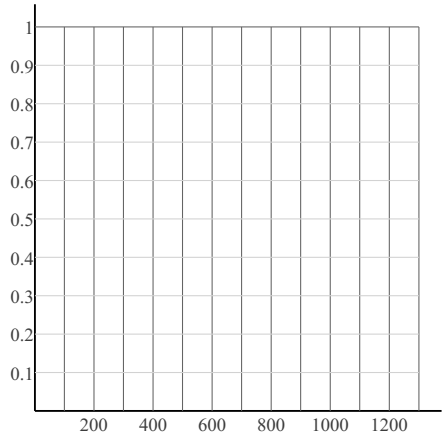
Date_____ Period____

Construct a scatter plot. State if there appears to be a positive correlation, negative correlation, or no correlation. When there is a correlation, identify the relationship as linear, quadratic, or exponential.

1)

X	Y
100	0.66
300	0.49
400	0.46
400	0.49
500	0.45

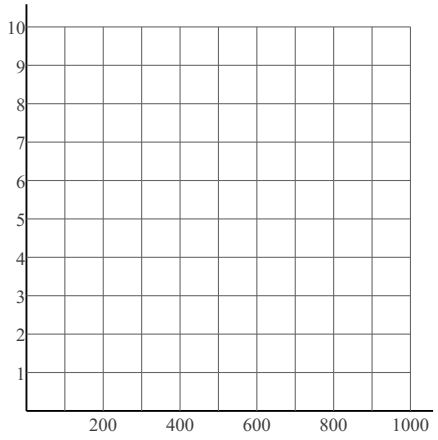
X	Y
600	0.41
700	0.29
800	0.26
800	0.27
1,300	0.02



2)

X	Y
200	2.6
300	3.3
400	1.1
400	9.9
500	2.5

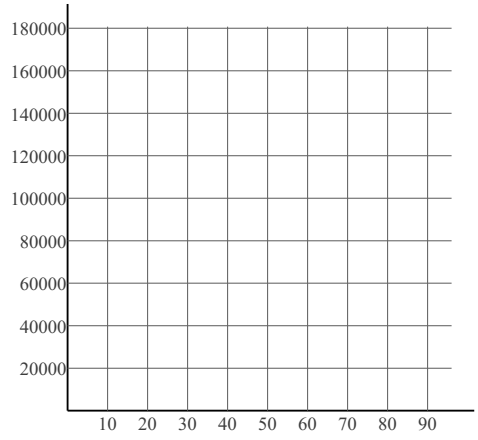
X	Y
500	7.2
600	1.3
600	2.1
700	0.6
1,000	2.7



3)

X	Y
5	178,622
5	180,752
14	57,812
14	61,761
18	37,341

X	Y
34	5,495
55	452
75	43
95	5
96	3

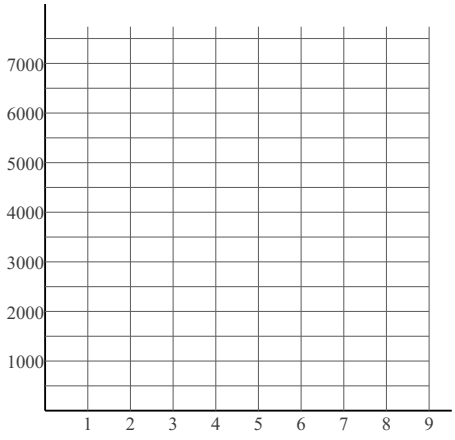


4)

X	Y
1	3,382.4
1	7,738.5
4	286.9
5	41.4

X	Y
5	53.3
6	18.1
7	6.5

X	Y
9	0.5
9	0.5
9	0.8

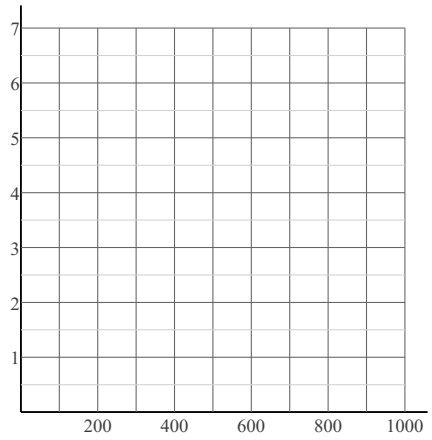


5)

X	Y
100	2
100	5
100	6
200	6

X	Y
400	4
500	3
800	2

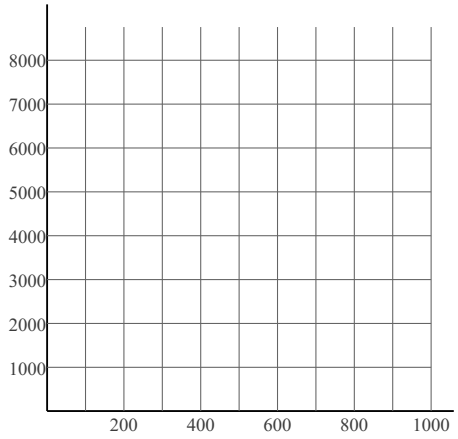
X	Y
800	7
900	3
1,000	3



6)

X	Y
100	8,754
200	2,171
200	2,261
300	1,456
400	920

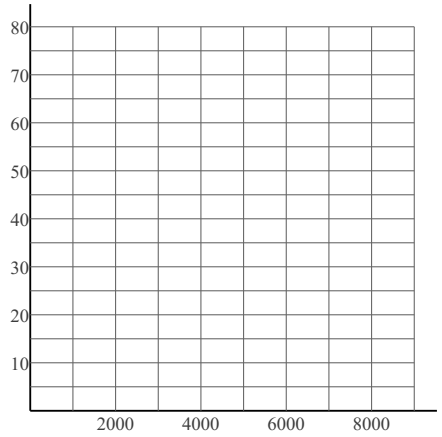
X	Y
700	57
700	83
800	28
800	49
1,000	8



7)

X	Y
1,000	20
2,000	40
3,000	40
5,000	50
6,000	60

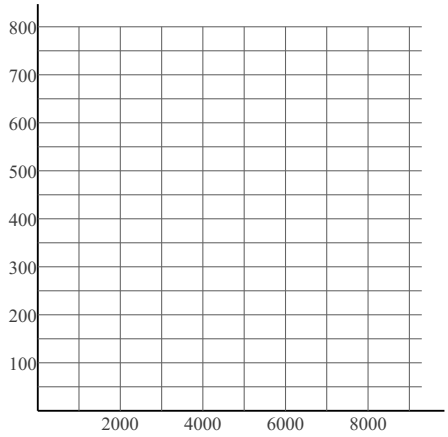
X	Y
7,000	60
8,000	70
8,000	70
9,000	80
9,000	80



8)

X	Y
300	100
1,800	400
3,000	500
3,300	600
4,900	700

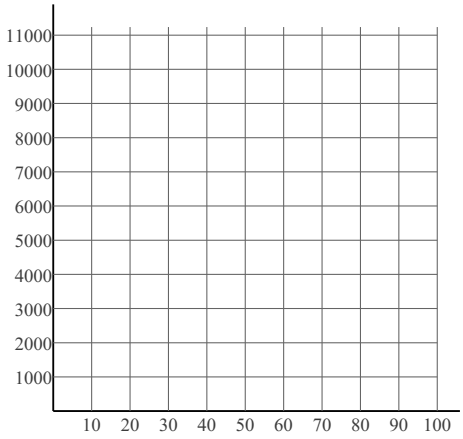
X	Y
6,200	800
7,000	800
8,900	800
9,000	800
9,300	800



9)

X	Y
10	11,235
20	2,668
30	464
40	254
40	352

X	Y
70	6
70	9
80	2
80	3
100	0.2

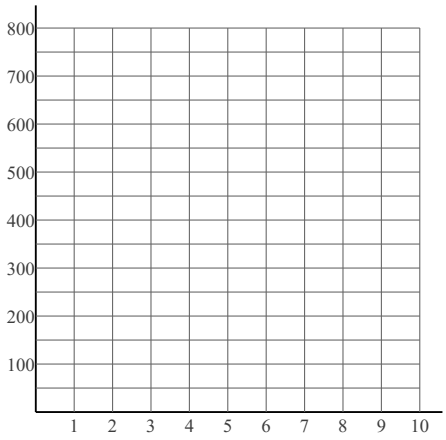


10)

X	Y
0.7	200
3	500
3.2	500
5.9	800

X	Y
6.2	800
7.2	800
8	800

X	Y
9.1	800
9.1	800
9.5	800

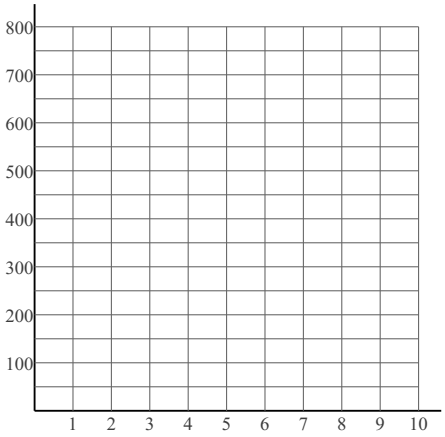


11)

X	Y
1	700
1	800
3	400
3	500

X	Y
4	300
5	300
6	200

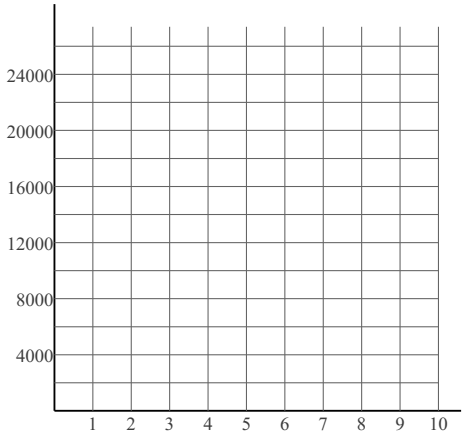
X	Y
7	200
8	100
10	200



12)

X	Y
0.4	27,388
1.1	11,948
2.4	2,766
2.9	1,528
2.9	1,607

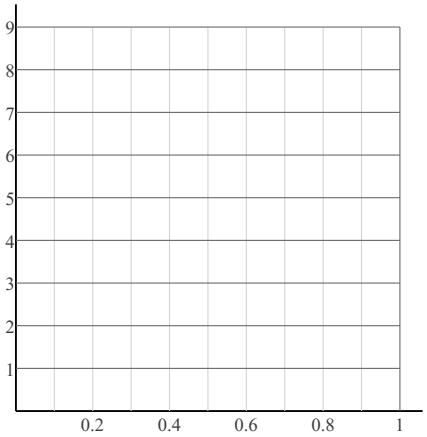
X	Y
6.6	25
6.8	20
7.4	10
8	5
9.2	1



13)

X	Y
0.03	8.1
0.28	4.8
0.59	2.2
0.65	1.9
0.69	2

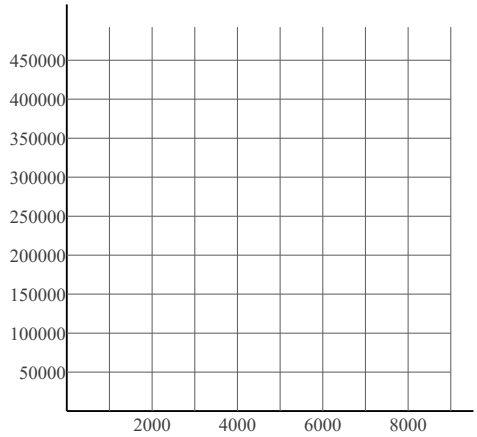
X	Y
0.69	2
0.71	1.9
0.93	2
0.96	2
0.98	2.1



14)

X	Y
1,000	130
2,000	380
2,000	640
3,000	750
3,000	1,400

X	Y
4,000	2,880
5,000	11,230
7,000	37,680
8,000	90,450
9,000	492,500



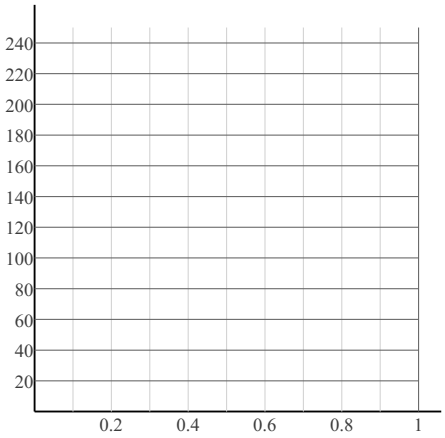
Construct a scatter plot. Identify the relationship as linear, quadratic, or exponential. Also find the slope-intercept form of the equation of the line that best fits the data.

15)

X	Y
0.2	250
0.5	140
0.6	100
0.6	110

X	Y
0.6	120
0.6	130
0.6	140

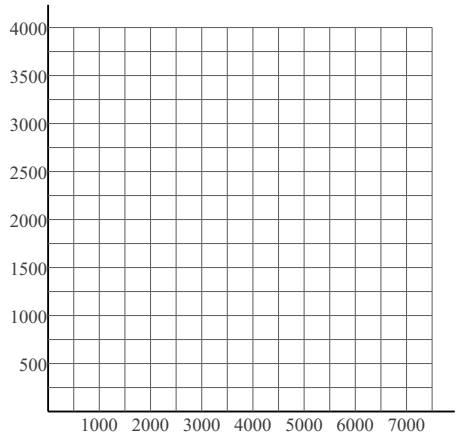
X	Y
0.8	10
0.8	60
0.9	50



16)

X	Y
2,200	1,000
3,200	2,000
3,700	2,000
3,900	3,000
4,200	2,000

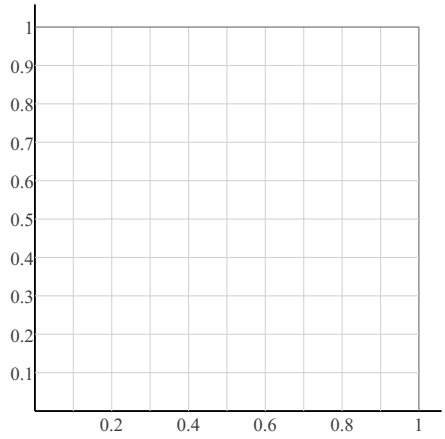
X	Y
5,900	3,000
6,000	3,000
6,200	3,000
7,200	4,000
7,500	4,000



17)

X	Y
0.19	0.8
0.26	0.7
0.37	0.6
0.41	0.6
0.47	0.6

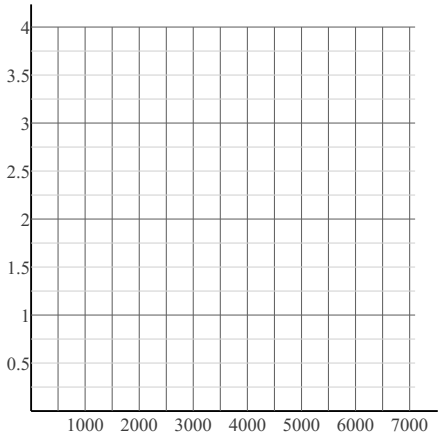
X	Y
0.53	0.5
0.61	0.5
0.62	0.5
0.98	0.2
1	0.2



18)

X	Y
600	0.9
1,100	1.3
1,600	1.5
3,200	2.3
4,400	2.8

X	Y
5,000	3
5,200	2.9
5,900	3.1
6,300	3.4
7,100	3.8

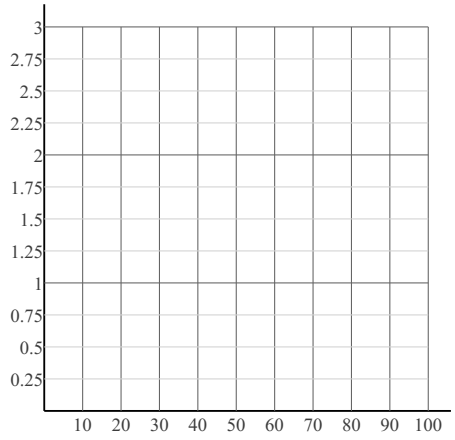


19)

X	Y
20	2.5
40	2
60	1.4
70	0.9

X	Y
70	1.3
90	0.5
100	0.2

X	Y
100	0.3
100	0.5
100	0.7



20)

X	Y
0.08	12
0.09	11
0.11	9
0.47	26

X	Y
0.47	26
0.6	29
0.68	36

X	Y
0.87	45
0.88	45
0.94	45