

Correlation Worksheet

Find the correlation coefficient for the data below.

1.

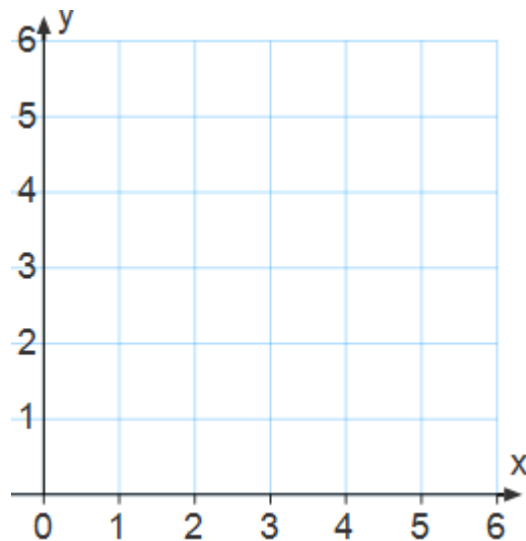
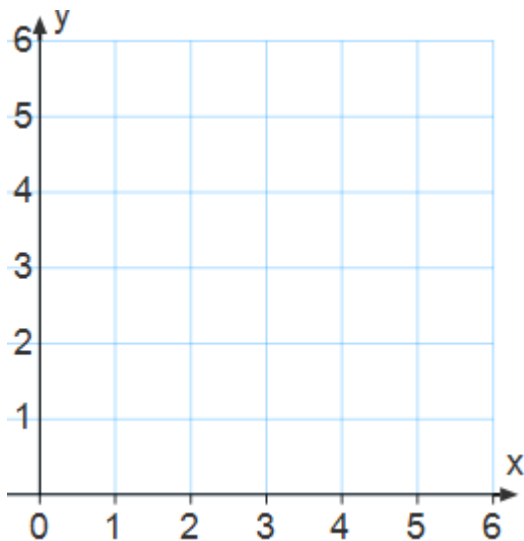
Exit #	2	39	48	57	67	75	91	110
Toll	1.50	2.50	3.00	3.50	4.25	4.50	5.50	6.50

2.

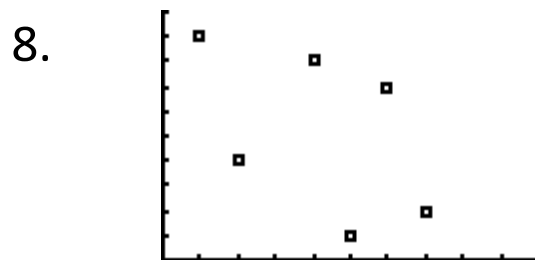
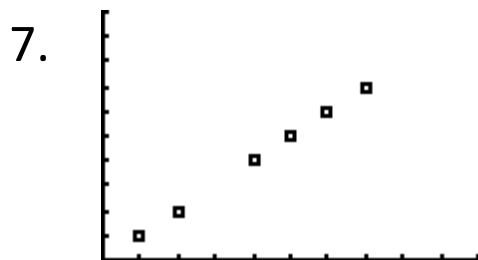
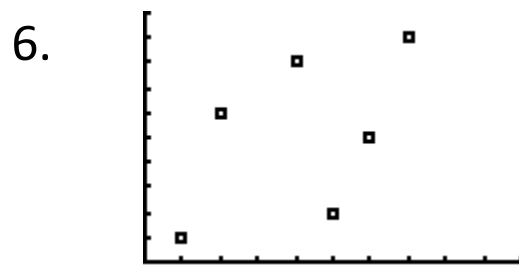
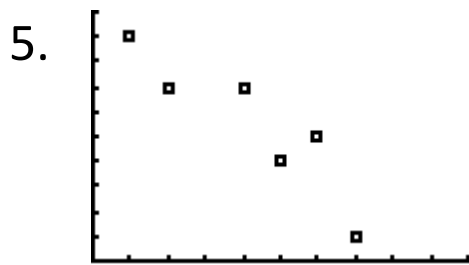
Month Number	0	1	2	3	4	5
Minutes Spent Training	40	38	39	38	33	30

3. Sketch a scatter plot that has a strong positive correlation.

4. Sketch a scatter plot that has a weak negative correlation.



Describe the following models as having a positive or negative correlation. Is this correlation strong or weak?



9. $r = 0.8$

10. $r = 0.2$

11. $r = 1$

12. $r = -0.9$

13. $r = -1$

14. $r = -0.1$

15. $r = -0.8$

16. $r = 0.3$