

## Scatter plot Calculator practice

Years since 1990	Average Weekly Work hours in U.S
0	34.5
1	34.3
2	34.4
3	34.5
4	34.7
5	34.5
6	34.4
7	34.6
8	34.6
9	34.5

Enter the data in your calculator.

1. Look at the scatter plot, what type of correlation do you see?
2. Use your calculator to determine the line of best fit, on your paper round to the nearest hundredth .
3. Cut and paste your line of best fit into the  $y =$ . Use your table to predict the average weekly work hours for 15 years after 1990.
4. Use your table to determine how many years after 1990 we would expect to see the average work week hours to reach 35.39.

Minutes spent jogging	Miles per hour
5	10
10	9
15	5
20	5
25	6

Enter the data in your calculator.

5. Look at the scatter plot, what type of correlation do you see?
6. Use your calculator to determine the line of best fit, on your paper round to the nearest hundredth .
7. Cut and paste your line of best fit into the  $y =$ . Use your table to predict the miles per hour for 40 minutes spent jogging.
8. Use your table to determine how many minutes you would have to spend jogging to reach a miles per hour pace of 5.08.

Year	Students per computer
1990	22
1992	18
1994	14
1996	10
1998	6.1
2000	5.4
2002	5
2004	4.8
2006	4.4
2008	3
2010	3.9
2012	2.9

Enter data into your calculator, using years since 1990 as your  $x$  values (0,2,4...)

9. Look at the scatter plot, what type of correlation do you see?
10. Use your calculator to determine the line of best fit, on your paper round to the nearest hundredth .
11. Cut and paste your line of best fit into the  $y =$ . Use your table to predict the students per computer in 2009 (round to hundredths)
12. Use your table to determine how many years after 1990 we would expect to see student per computer ratio to reach .49?

Years since 1995	Hourly Wage
0	\$11.50
1	\$11.77
2	\$12.00
3	\$12.25
4	\$12.80
5	\$13.30
6	\$ 14.10

Enter the data in your calculator.

13. Look at the scatter plot, what type of correlation do you see?
14. Use your calculator to determine the line of best fit, on your paper round to the nearest hundredth .
15. Cut and paste your line of best fit into the  $y =$ . Use your table to predict the hourly wage for 2014.
16. Use your table to determine what year we would expect the hourly wage to reach \$35.21?

Minutes spent working out	Calories burned
10	100
15	120
20	146
22	148
25	176
29	210
32	290
65	475

Enter the data in your calculator.

17. Look at the scatter plot, what type of correlation do you see?
18. Use your calculator to determine the line of best fit, on your paper round to the nearest hundredth .
19. Cut and paste your line of best fit into the  $y =$ . Use your table to predict the calories burned after 40 minutes of working out.
20. Use your table to determine how many minutes it would take to burn about 400 calories.

NFL week	Panther points scored
1	7
2	23
3	38
5	6
6	35
7	30
8	31
9	34
10	10
11	24
12	20
13	27
14	13
15	30
16	17
17	21

Enter the data in your calculator.

21. Use your calculator to determine the line of best fit, on your paper round to the nearest hundredth .
22. Cut and paste your line of best fit into the  $y =$ . Use your table to predict points the Panthers will score in week 18, against the 49ers.

23. Use one of the 6 data sets and explain a scenario where the information collected would benefit someone. How would we use this in the "real world"