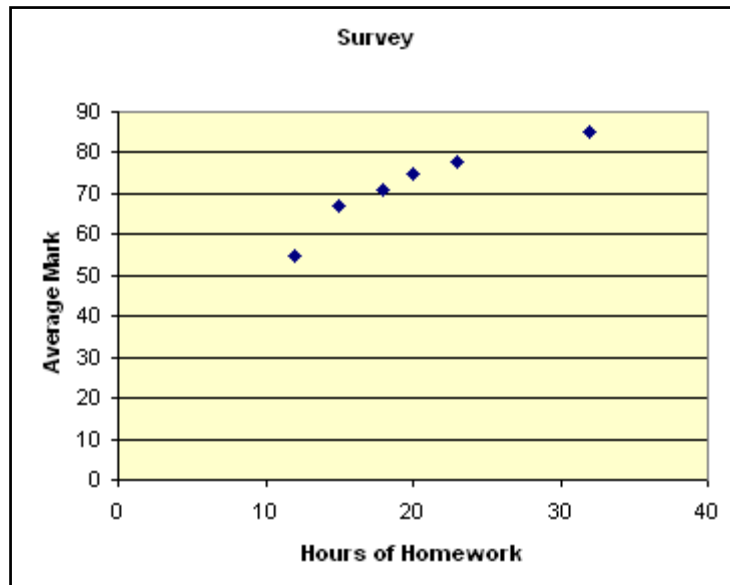


MATC9 Ch4.5 Key Concepts 1 Scatter Plots and Trends Worked Example

Example: Suki polled her classmates. She recorded how many hours of homework each did, on the average, and what the average mark was on the last report card. The results are shown. Use a scatter plot to determine what relationship seems to exist between hours of homework done per week, and average mark.

Hours of Homework	Average
20	75
23	78
12	55
15	67
32	85
18	71

Solution: The scatter plot is shown. It seems that the average mark increases as the hours of homework done increases.



Practice:

1. Yuri did a survey to see what kind of relationship existed between number of siblings and number of CDs owned. His results are shown. Use a scatter plot to determine any apparent relationship.

Siblings	Number of CDs
2	23
1	18
3	22
6	18
4	21
5	8

2. Nadia polled people in her town. She recorded age versus number of hours spent on the Internet per week. Her results are shown. Use a scatter plot to determine what relationship exists between age and number of hours spent on the Internet per week.

Age	Hours on the Internet per Week
56	2
15	15
21	12
18	14
32	8
44	6

Answers: 1. None. 2. As age increases, number of hours spent on the Internet decreases.