

Activity 2

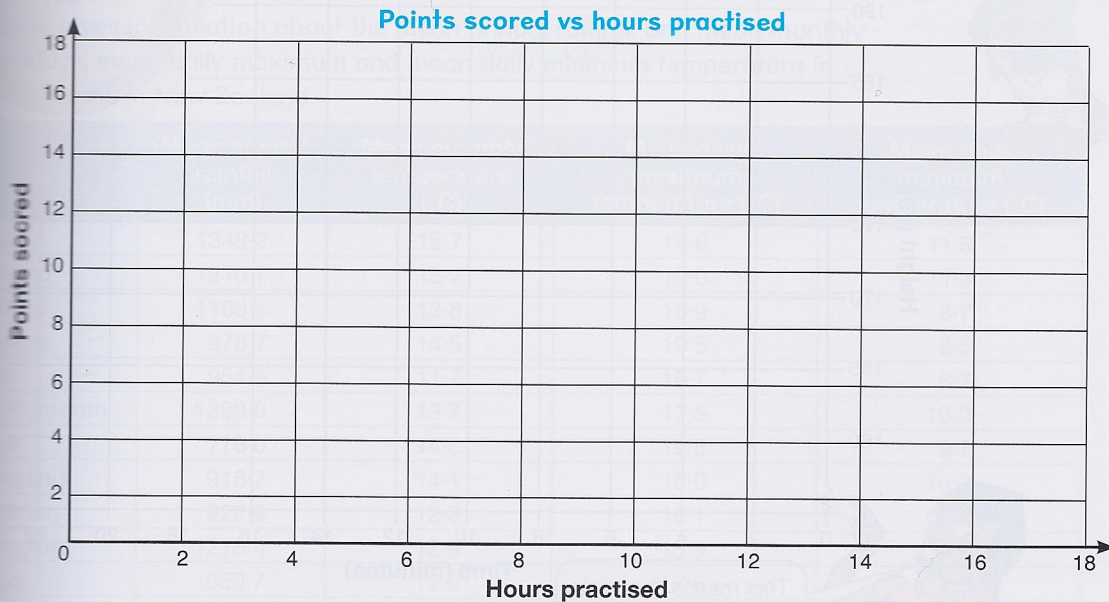
Jules wanted to know if there was a relationship between the number of hours practised for a dance competition and the points scored.

He asked each team how many hours they practised.



Hours practised	1	3	5	4	10	8	11	7	15	18
Points scored	1	4	6	5	12	8	12	6	13	15

- a Draw a scatter plot for the data on your copy of these axes.



- b Is there a relationship between the hours practised and the points scored? Justify your answer.

- c This table shows the age of school students and the amount of pocket money they get.

Note: Only those students who get pocket money are included.

Age	5	12	8	14	18	16	5	9	14	17	10	11	16	13	10	15	14	9	6	9
Amount of pocket money	\$10	\$10	\$8	\$5	\$20	\$15	\$1	\$10	\$13	\$18	\$10	\$10	\$16	\$12	\$20	\$15	\$12	\$8	\$3	\$9

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- a Draw a scatter plot to show this data. Use a spreadsheet package if possible.
- b Do you think there is a relationship between age and amount of pocket money? Explain your answer.
- c Write down the coordinates of any outliers. Give a possible explanation for it/them.
- d Could this data have been displayed in any other way to test if there was a relationship between age and amount of pocket money?