

1. Use the data in the table to answer each question.

Time (s)	0	1	2	3	4	5	6
Distance (m)	0	4	8	12	16	20	24

- a) Which quantity is the independent variable? The dependent variable?
- b) Plot the ordered pairs on a graph.
- c) Is this relationship linear or nonlinear?
- d) Estimate the distance traveled in 2.5 s, 6.25 s, and 8 s.
- e) Estimate the time taken to travel 3 m, 21 m, and 36 m.

2. The data for 12 professional basketball players is given in the chart.

Most Points in One Game	Disqualifications in One Season
55	0
33	1
27	0
19	0
19	3
27	1
14	5
16	0
11	0
14	1
14	0
16	0

- a) Draw a scatter plot.
- b) If there is a relationship, draw a line of best fit.

Answers:

- 1 a) time is indep. b) linear d) 10m, 25m, 32m e) 0.75s, 5.25s, 9s
2. b) The data shows no correlation, so drawing a line of best fit is not appropriate.