

Time series data

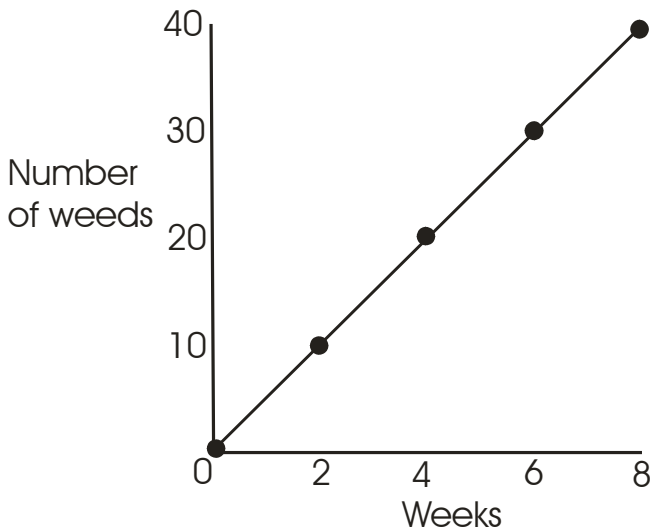
I am learning to draw and compare time series data.

Weeds in the garden

The graph below shows the number of weeds that are found in a garden each week. Use this graph to answer the questions below.



Weeds in the garden



1) How many weeds were in the garden in week two?

2) How many weeds were in the garden after seven weeks?

3) If they counted the number of weeds in week ten how many weeds do you think there would be.

4) Complete this sentence.

The number of weeds increases by

..... every two weeks.

Ants

The table below shows the number of ants that are found on a picnic rug every five minutes.



Minutes	0	5	10	15	20	25
Number of ants	1	2	4	8	16	32

5) On the following page draw in dots representing the number of ants found every five minutes.

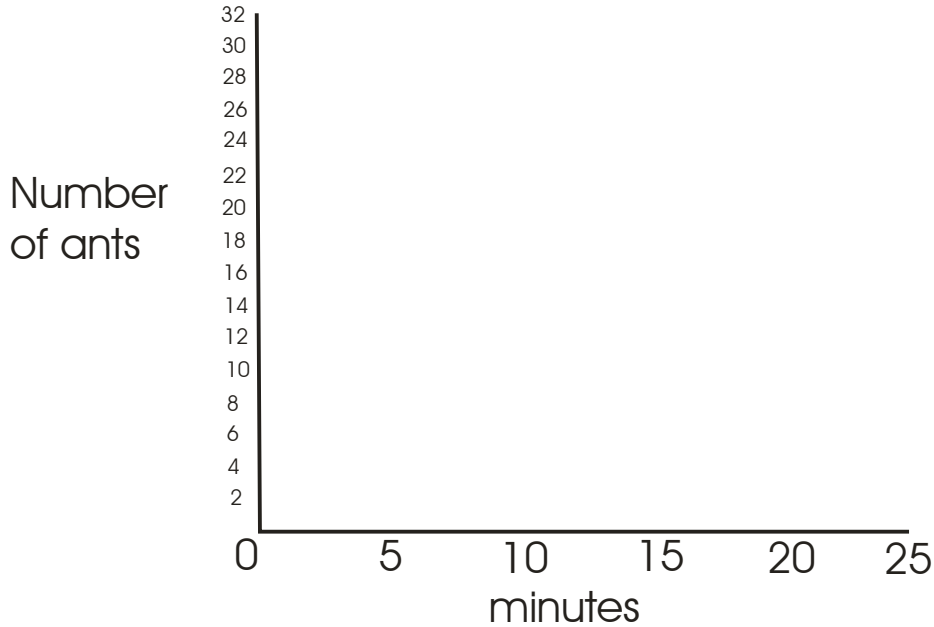
6) Connect the dots you have just drawn with straight ruled lines.

7) If there was a recording after thirty minutes how many ants do you think would be found?

8) Which statement best describes this graph.

- a) The number of ants is increasing
- b) The number of ants is decreasing
- c) The number of ants doubles after every five minutes.

Ants on the picnic rug



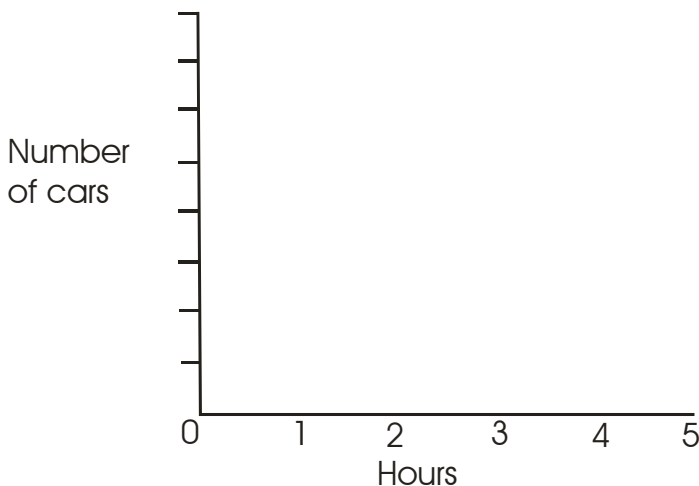
Cars in the car park

The information on the table below shows the number of cars in a car park each hour. Decide on a scale and graph the information below.



Hour	Hour 1	Hour 2	Hour 3	Hour 4	Hour 5
Number of cars	8	16	7	15	9

Cars in the car park



9) How many cars were parked in the car park with two hours gone?

10) Can you see any pattern in the graph?

11) Why can't you predict from this graph how many cars will be in the car park after six hours?

11) What is the first value you put on your graph? (Hint: Hour 1)

12) Why don't you start the line on your graph at zero? Explain your answer.

