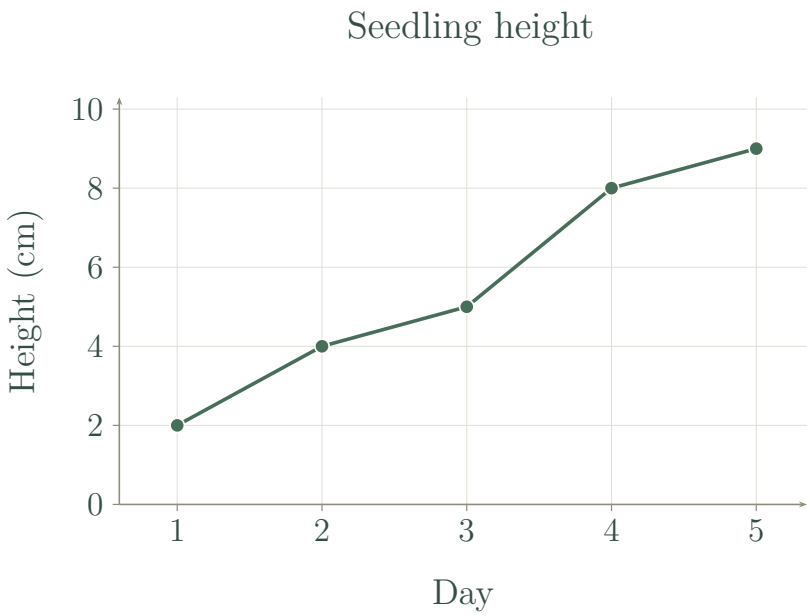
Line graphs

6 questions | 10 marks

Equivalent correct methods earn the corresponding marks.

1. Read the seedling's height on day 2. [1 mark]



Locate day 2, then read the height of its point.

Answer: 4 cm.

2. How much did the seedling grow from day 2 to day 3? [1 mark]

One seedling measured at the same time each day

Day	Height (cm)
1	2
2	4
3	5
4	8
5	9

$5 - 4 = 1$ cm.

Answer: 1 cm.

3. Between which neighbouring days was its largest increase? [2 marks]

One seedling measured at the same time each day

Day	Height (cm)
1	2
2	4
3	5
4	8
5	9

The increases are 2, 1, 3 and 1 cm.

3 cm is the greatest.

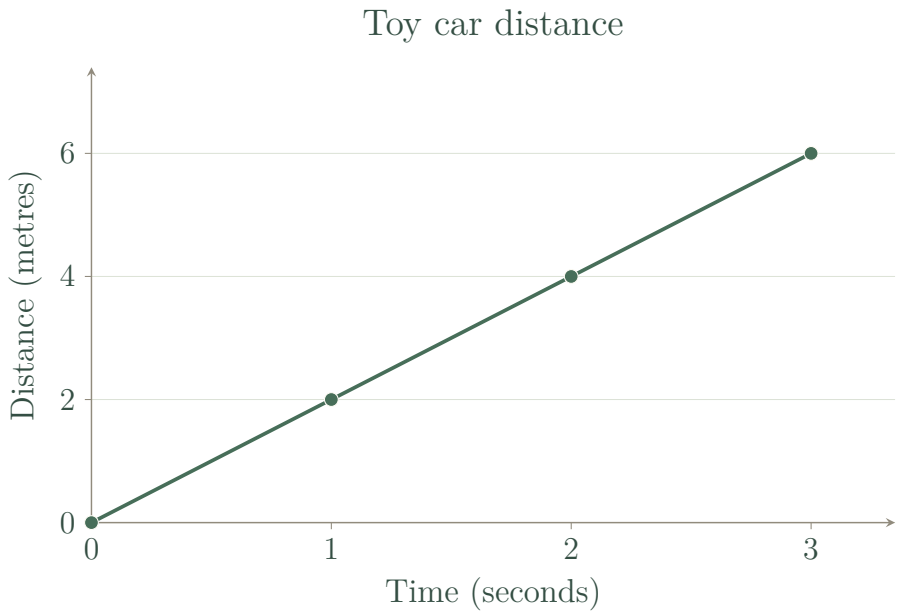
Answer: Days 3 and 4.

4. Readings are 5, 5, 7 at 1, 2, 3 pm. Describe the first section of a line graph. [1 mark]

Both readings are 5.

Answer: Horizontal: the reading stays at 5 between 1 and 2 pm.

5. Draw a line graph for times 0, 1, 2, 3 seconds and distances 0, 2, 4, 6 metres. [3 marks]



Use equal steps on each axis.

The distance increases by 2 metres each second, so the plotted points form a straight line.

Answer: Plot $(0, 0)$, $(1, 2)$, $(2, 4)$, $(3, 6)$ and join in time order. Label Time (seconds), Distance (metres), and a suitable title.

6. A graph joins day 1 height 2 cm to day 2 height 4 cm. Is the halfway height of 3 cm a measured reading? [2 marks]

Only the day 1 and day 2 measurements were supplied.

The seedling may not have grown at a constant rate between them.

Answer: No. It is an estimate between two recorded readings.