

# Y4 – Statistics – Monday - ANSWERS

## LO: line graphs

Here is a line graph showing a sunflower's growth. It was planted on Saturday 30th July and its height was measured every 2 days.

Date	Height (cm)
Sat 30th	0
Sun 31st	0
Mon 1st	0
Tue 2nd	0
Wed 3rd	0
Thu 4th	0
Fri 5th	2
Sat 6th	4
Sun 7th	6
Mon 8th	8
Tue 9th	8
Wed 10th	10
Thu 11th	10
Fri 12th	12
Sat 13th	14
Sun 14th	17
Mon 15th	19
Tue 16th	19.5
Wed 17th	19.5
Thu 18th	19.5
Fri 19th	19.5
Sat 20th	19.5
Sun 21st	19.5
Mon 22nd	19.5
Tue 23rd	19.5
Wed 24th	19.5
Thu 25th	19.5
Fri 26th	19.5
Sat 27th	19.5
Sun 28th	19.5
Mon 29th	19.5
Tue 30th	19.5
Wed 31st	19.5

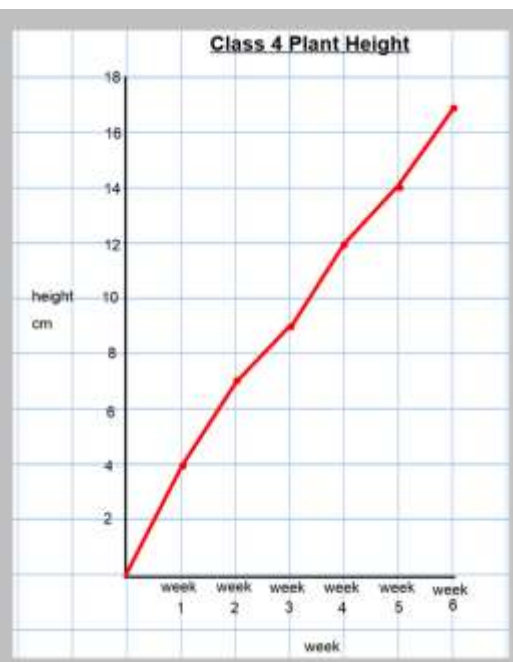
- How many days did the plant take to grow 8cm?  
**14 days.**
- What is the height difference between Wednesday 17th and Tuesday 23rd?  
**4cm.**
- What is the height of the plant on these days:  
Thursday 11th **6cm**  
Friday 19th **10cm**  
Monday 29th **19.5cm**
- Why do you think there is no measurement in the first week?  
**The plant has not grown in the first week.**

Class 4 grew a plant. They measured the height of the plant every week for 6 weeks. The table shows the height of the plant each week.

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
4 cm	7 cm	9 cm	12 cm	14 cm	17 cm

Create a line graph to represent this information. What scale would you use on the x and y axes?  
**x axis: one box per week**  
**y axis: 2cm per box**

Between which two weeks did the plant reach a height of 10 cm?  
**week 3 and week 4**



Jack launched a toy rocket into the sky. After 5 seconds the rocket fell to the ground. Which graph shows this? Explain how you know.

**Graph A**  
The height of the rocket increases then decreases quickly again, returning to a height of 0 at 5 seconds.

**Graph B**  
Example story: A bird flew up from the ground. It continued to fly upwards for 5 seconds then flew at the same height for another 3 seconds.

Make up your own story for the other graph.