

# Varied Fluency

## Step 1: Read and Interpret Line Graphs

### National Curriculum Objectives:

Mathematics Year 5: (5S2) [Solve comparison, sum and difference problems using information presented in a line graph](#)

### Differentiation:

**Developing** Questions to support reading and interpreting line graphs showing 1 data set using scales in increments of 1 or 2, where all increments are shown.

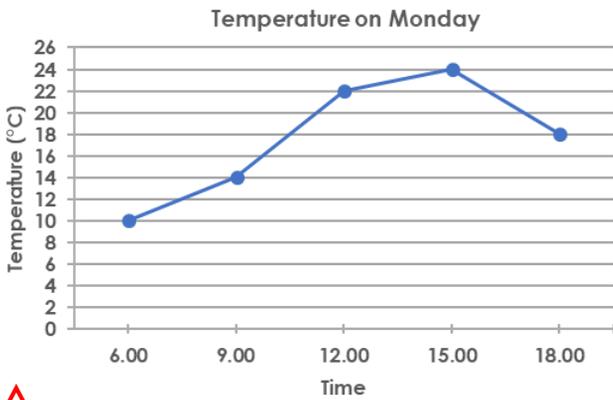
**Expected** Questions to support reading and interpreting line graphs showing up to 2 data sets using any scale where all increments are shown.

**Greater Depth** Questions to support reading and interpreting line graphs showing up to 2 data sets using any scales where some increments are missing.

More [Year 5 Statistics](#) resources.

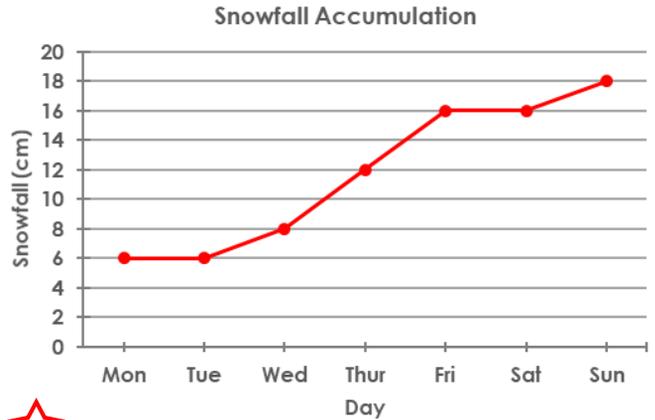
Did you like this resource? Don't forget to [review](#) it on our website.

1a. What were the highest and lowest temperatures recorded?



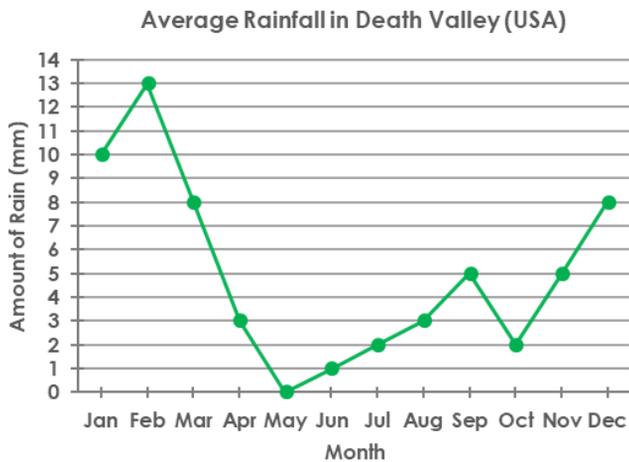
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1b. How much snow fell between Friday and Saturday?



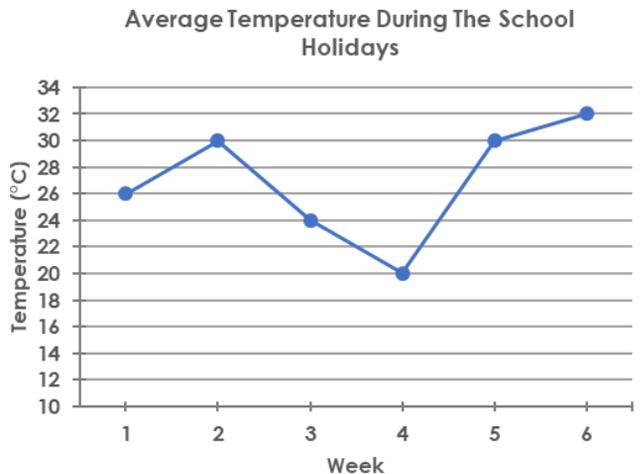
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2a. Which months saw more than 4mm of rain?



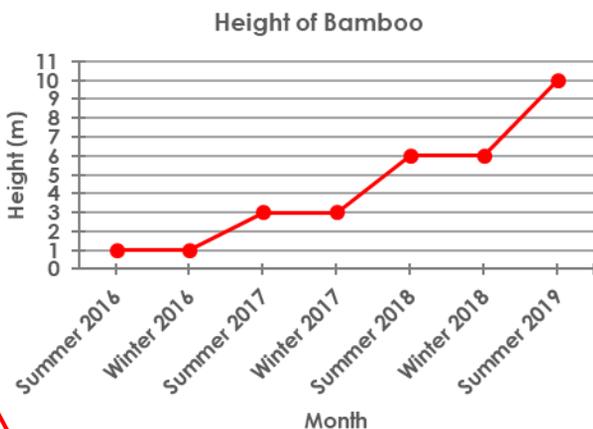
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2b. In which weeks were the temperatures 30°C or above?



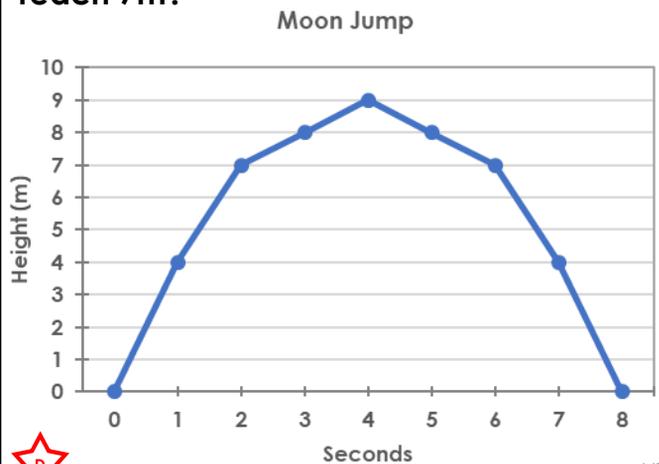
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3a. In which season did the height of the bamboo reach over 5m?



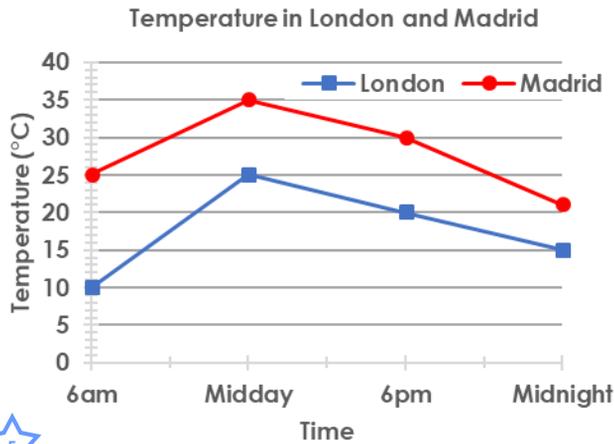
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3b. How long did it take the astronaut to reach 7m?



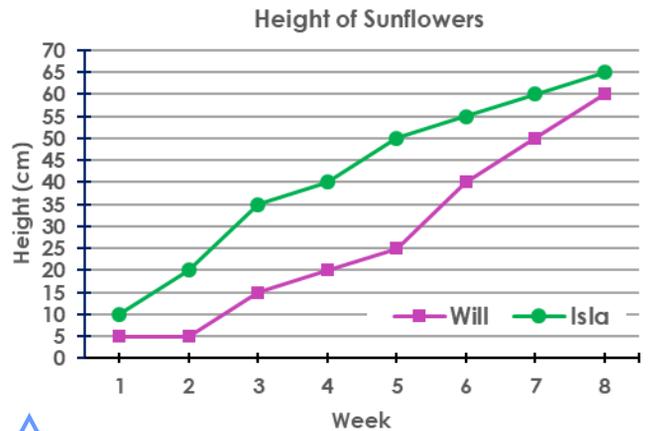
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4a. What was the difference in temperature at Midday?



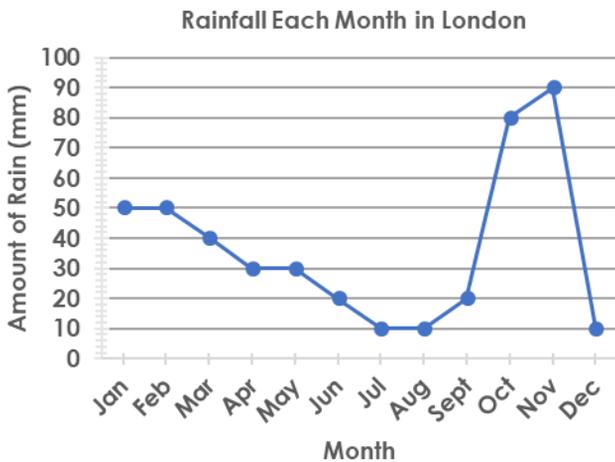
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4b. What was the difference in height at 6 weeks?



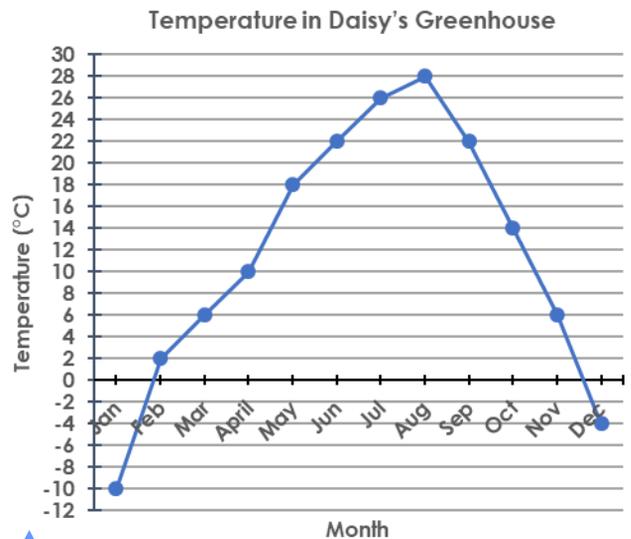
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5a. How many months saw more than 40mm of rain?



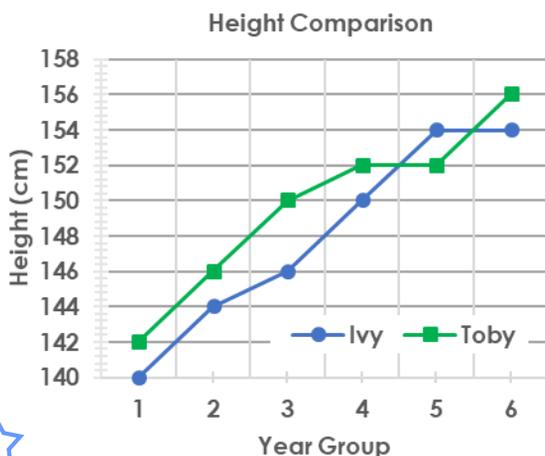
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5b. In which months were the temperatures below 0°C?



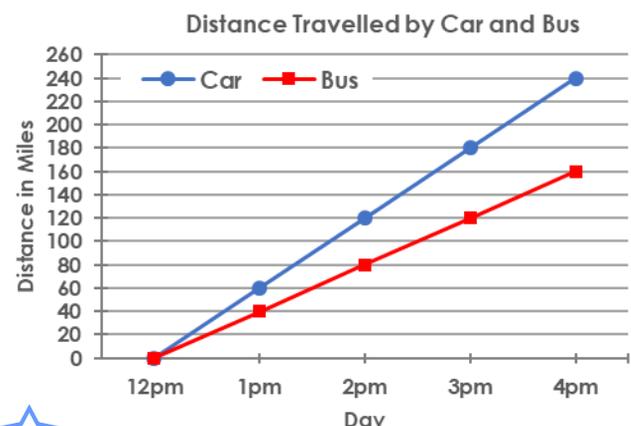
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6a. Who was taller in Year 4? Who was taller in Year 5?



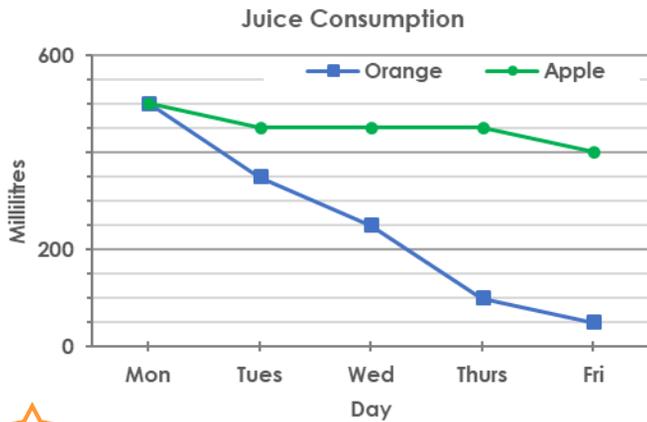
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6b. Which vehicle travelled the farthest between 12pm and 4pm?



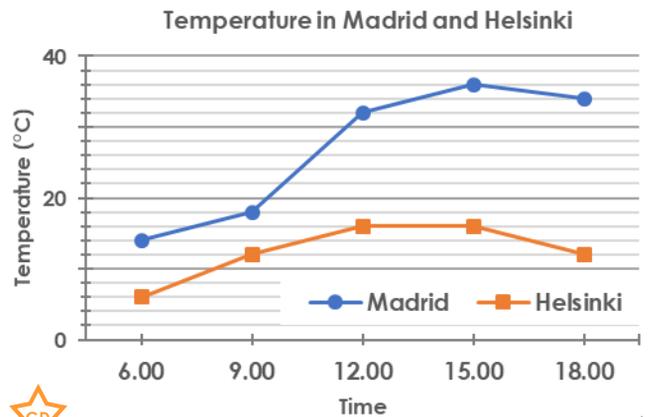
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7a. What was the difference between both juices consumed on Wednesday?



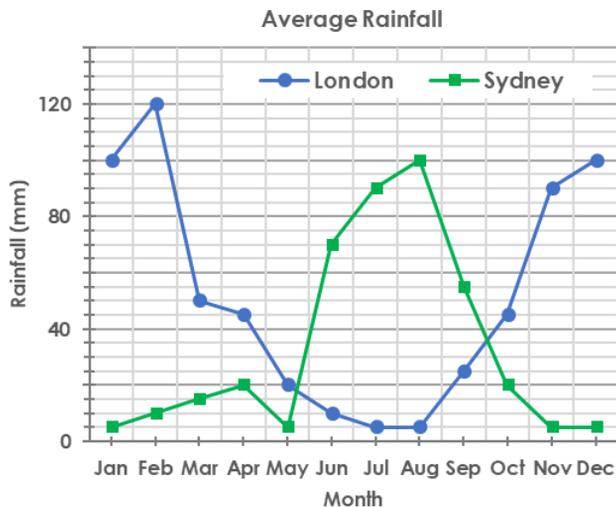
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7b. What was the difference in temperature in Madrid and Helsinki at Midday?



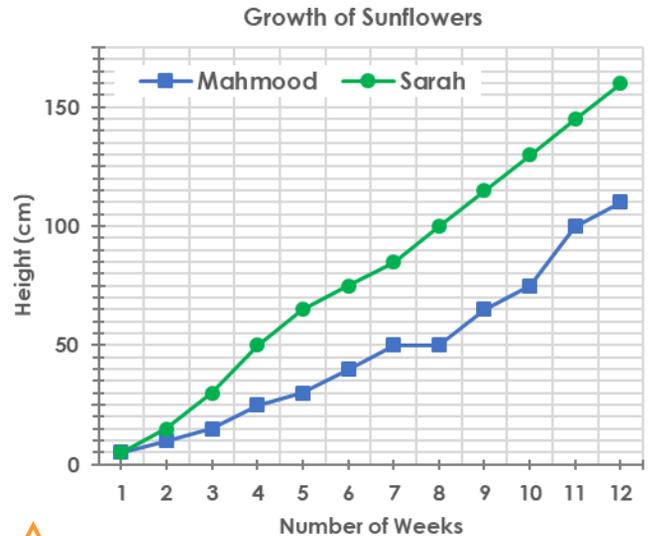
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8a. Which months had the highest amount of rainfall for each city?



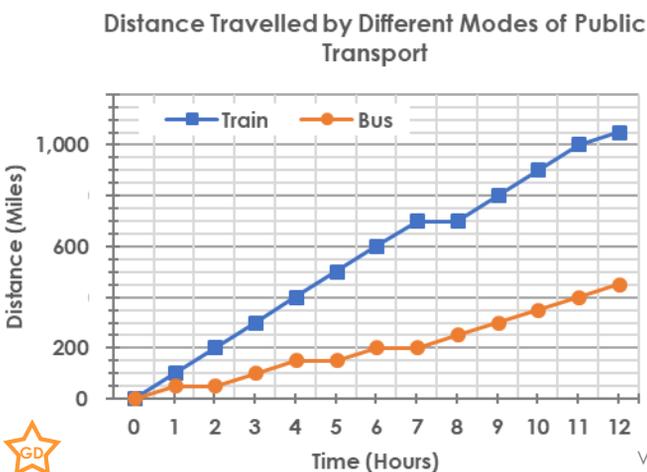
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8b. In which week did each person's sunflower pass a height of 100cm?



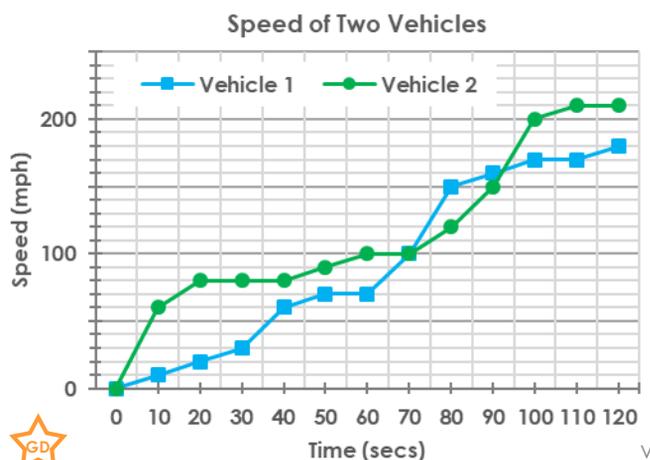
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9a. How many hours did each vehicle take to travel 400 miles?



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9b. How long did each vehicle take to reach 150mph?



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Developing

- 1a. Highest = 24°C; Lowest = 10°C
- 2a. January, February, March, September, November and December
- 3a. Summer 2018

Expected

- 4a. 10°C
- 5a. 4 months
- 6a. Toby was taller in Year 4. Ivy was taller in Year 5.

Greater Depth

- 7a. 200millilitres
- 8a. London = February; Sydney = August
- 9a. Train = 4 hours; Bus = 11 hours

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Developing

- 1b. 0cm
- 2b. Week 2, 5 and 6
- 3b. 2 seconds

Expected

- 4b. 15cm
- 5b. January and December
- 6b. The car

Greater Depth

- 7b. 16°C
- 8b. Mahmood = Week 11; Sarah = Week 8
- 9b. Car 1 = 80 seconds; Car 2 = 90 seconds