

# Varied Fluency

## Step 3: Problems with 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 solving problems using line graphs showing one set of data using scales in increments of 1 or 2, where all increments are shown.

**Expected** Questions to support solving problems using line graphs showing up to two sets of data using any scale where all increments are shown. Some points may fall between marked increments.

**Greater Depth** Questions to support solving problems using line graphs showing up to two sets of data using any scale where some increments are missing. Points may fall between marked increments.

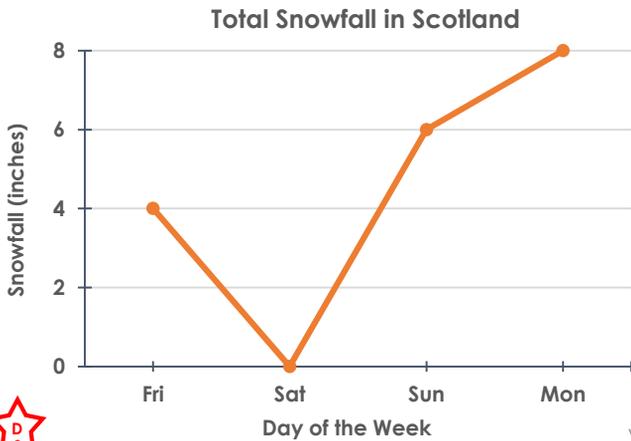
More [Year 5 Statistics](#) resources.

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# Problems with Line Graphs

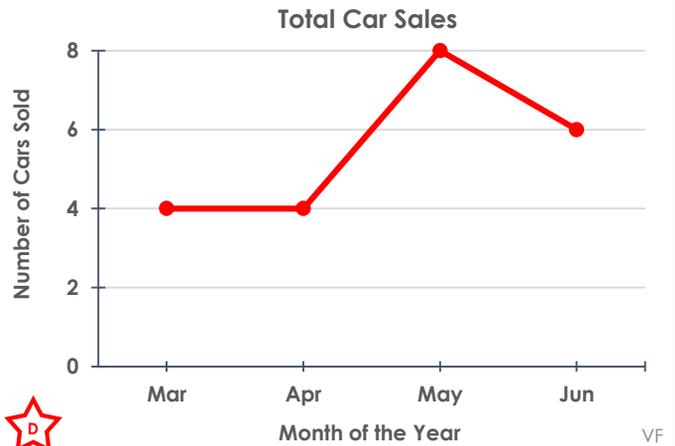
# Problems with Line Graphs

1a. True or false? Glasgow's total snowfall on Friday and Saturday was less than the total snowfall on Sunday and Monday.



VF

1b. True or false? The total car sales in March and April were more than the total in May and June.



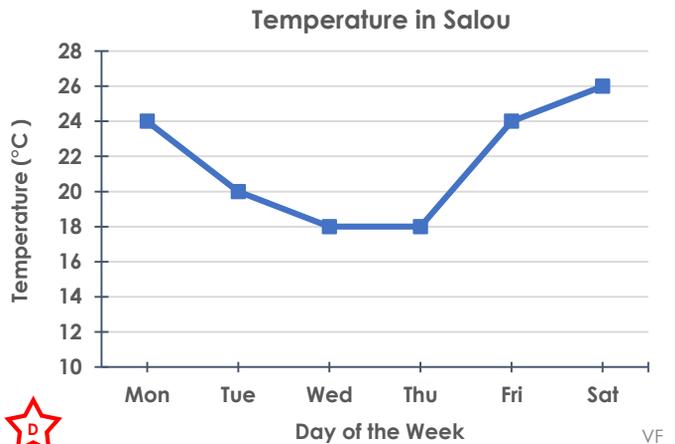
VF

2a. How many more holidays were booked in July than May?



VF

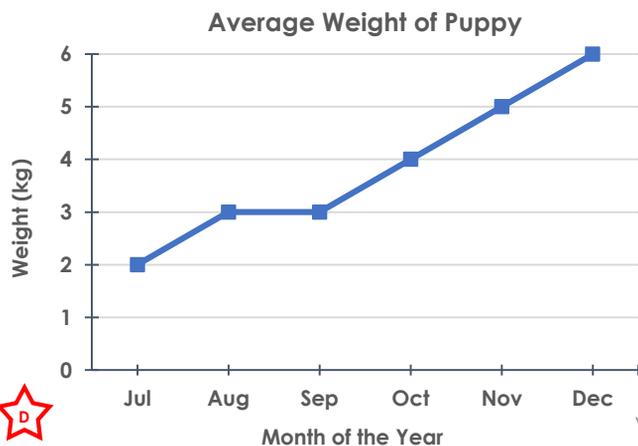
2b. How much hotter was it on Friday than Tuesday in Salou?



VF

3a. Complete the sentence.

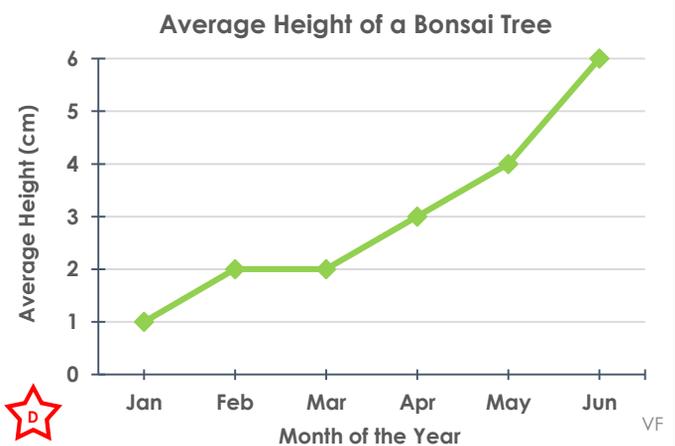
The average weight of the puppy was the same in August and \_\_\_\_\_.



VF

3b. Complete the sentence.

The average height of the bonsai tree was the same in February and \_\_\_\_\_.



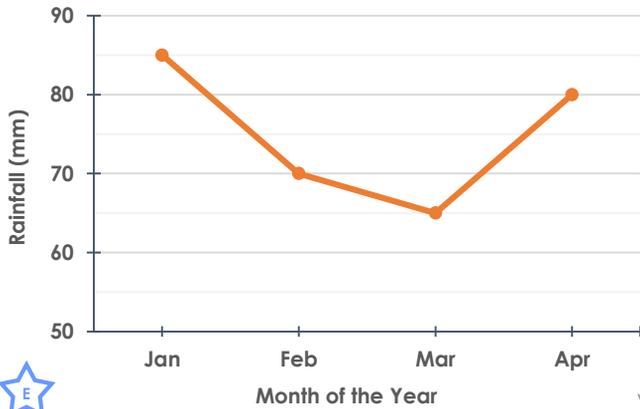
VF

# Problems with Line Graphs

# Problems with Line Graphs

4a. True or false? England's total rainfall in January and February was less than the total rainfall in March and April.

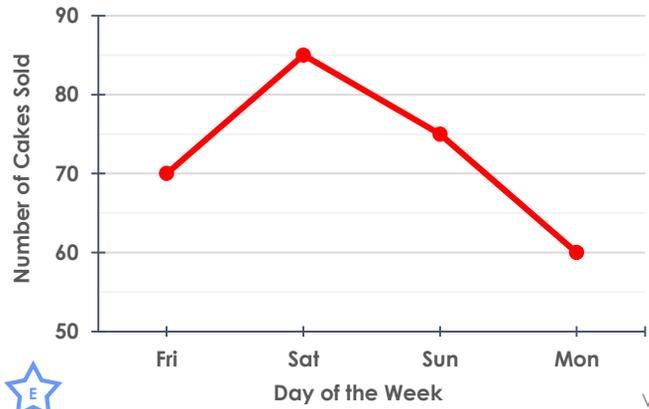
Total Rainfall in England



VF

4b. True or false? The total number of cakes sold on Friday and Saturday was less than the total sold on Sunday and Monday.

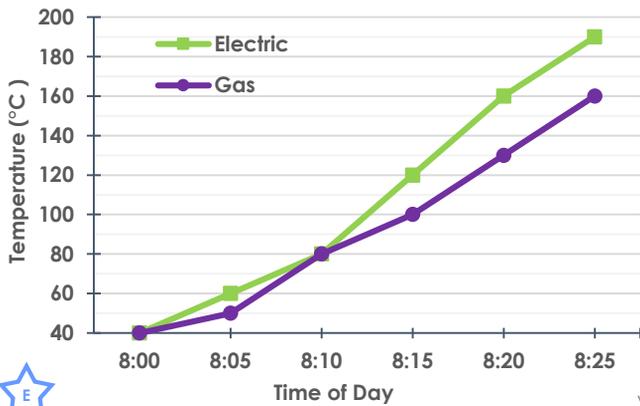
Total Cake Sales



VF

5a. How much longer did it take for the gas oven to reach 160°C than the electric oven?

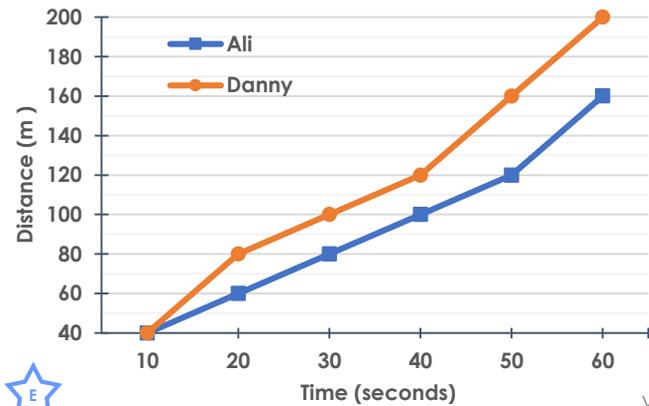
Temperature of Ovens



VF

5b. How much longer did it take for Ali to run 100 metres than Danny?

Distance Run in One Minute

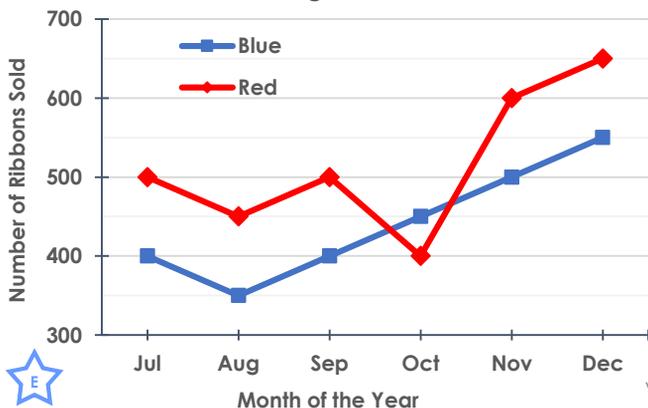


VF

6a. Complete the sentence.

Sales of blue ribbons were higher than the sales of red ribbons in \_\_\_\_\_.

Sales Figures of Ribbons

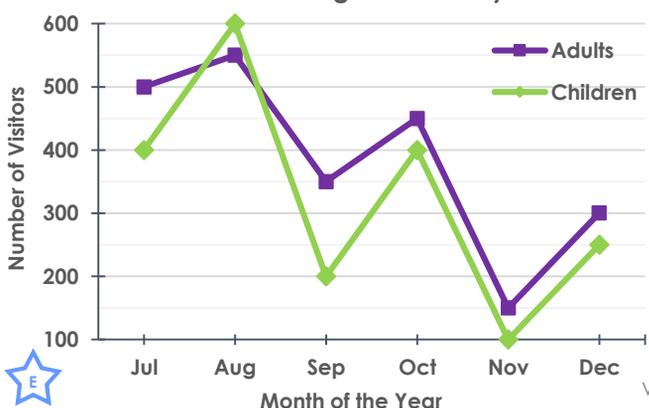


VF

6b. Complete the sentence.

The number of children visiting the park was higher than adults in \_\_\_\_\_.

Visitors to Evergreen Holiday Park



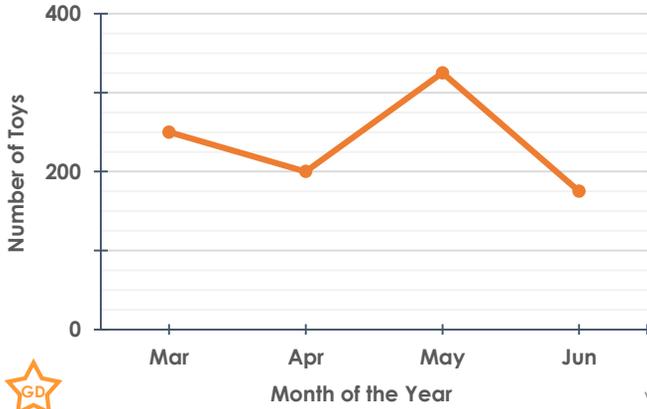
VF

# Problems with Line Graphs

# Problems with Line Graphs

7a. True or false? The total production of toys in March and April was higher than the total in May and June.

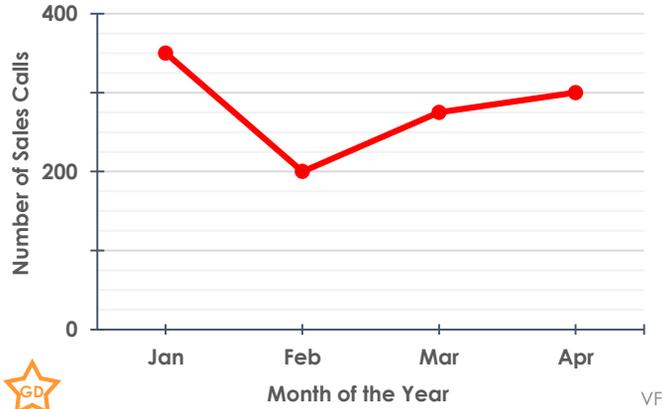
Total Toy Production



VF

7b. True or false? The total number of sales calls made in January and February was higher than in March and April.

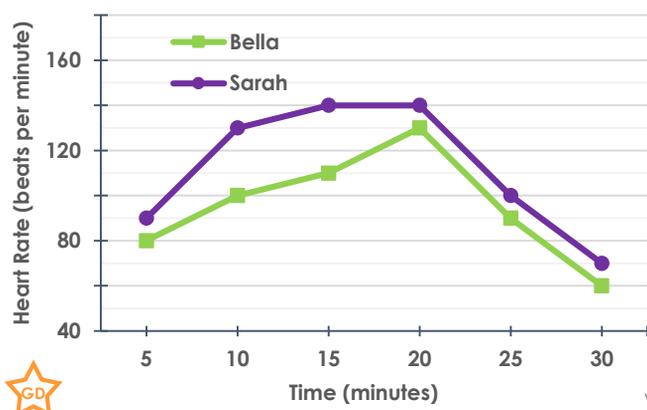
Total Sales Calls



VF

8a. How much longer did it take for Bella's heart rate to reach 130 beats per minute than Sarah's?

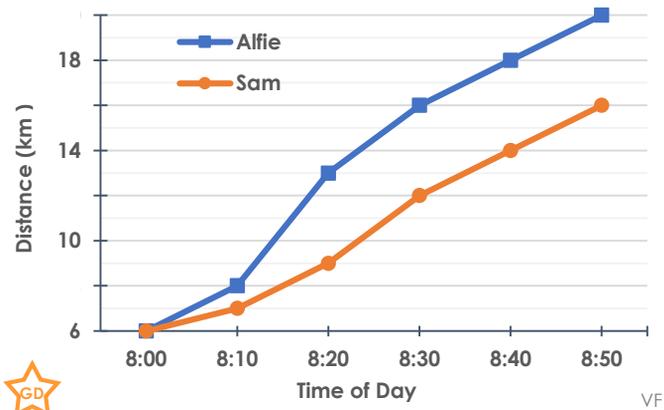
Heart Rate During Exercise



VF

8b. How much longer did it take for Sam to cycle 16km than Alfie?

Distance Cycled in the Park

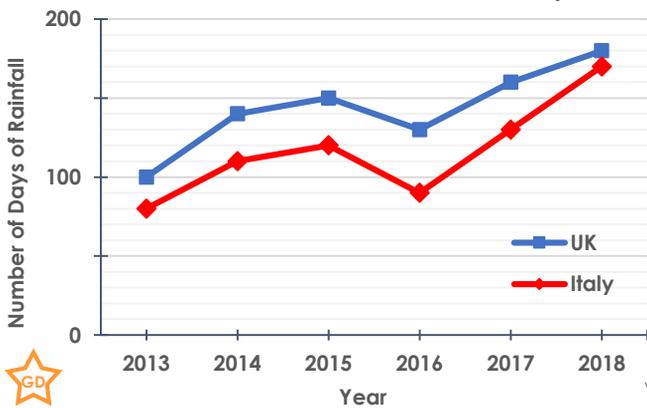


VF

9a. Complete the sentence.

There were 40 more days of rainfall in the UK than Italy in \_\_\_\_\_.

Annual Rainfall in the UK and Italy

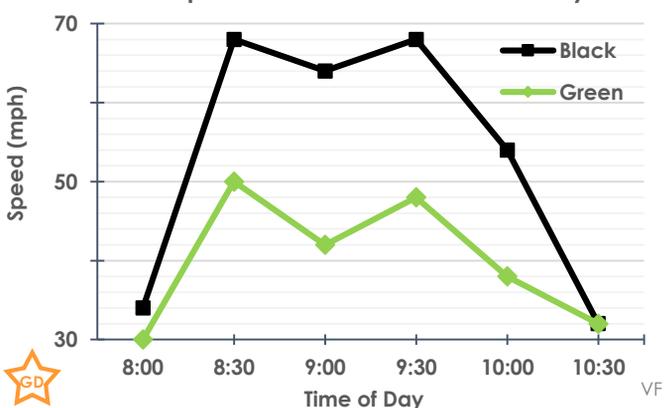


VF

9b. Complete the sentence.

The black car was travelling 20mph faster than the green car at \_\_\_\_\_.

Speed of Drivers on the Motorway



VF

## Varied Fluency Problems with Line Graphs

### Developing

- 1a. **True**
- 2a. **8**
- 3a. **September**

### Expected

- 4a. **False. England's total rainfall in January and February was more than the total rainfall in March and April.**
- 5a. **5 minutes**
- 6a. **October**

### Greater Depth

- 7a. **False. The total production of toys in March and April was higher than the total in May and June.**
- 8a. **10 minutes**
- 9a. **2016**

## Varied Fluency Problems with Line Graphs

### Developing

- 1b. **False. The total car sales in March and April were less than the total sales in June and July.**
- 2b. **4°C**
- 3b. **March**

### Expected

- 4b. **False. The total number of cakes sold on Friday and Saturday was more than the total number of cakes sold on Sunday and Monday.**
- 5b. **10 seconds**
- 6b. **August**

### Greater Depth

- 7b. **False. The total number of sales calls made in January and February was lower than in March and April.**
- 8b. **20 minutes**
- 9b. **9:30**