

Formulae you will need:

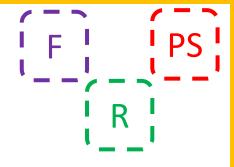
$$speed = \frac{distance}{time}$$

$$T_C = \frac{5}{9}(T_F - 32)$$

Date	Temperature in Birmingham (°C)	Temperature in New York (°F)
06/08/18	27	91.4
07/08/18	27	87.8
08/08/18	21	89.6
09/08/18	20	96.8
10/08/18	16	86

- 1. When was the hottest day for Birmingham?
- 2. When was the coldest day for New York?
- 3. What is the difference between the mean temperature for Birmingham and New York?
- 4. By calculating the, mean, mode, median and range of both cities write a paragraph making a comparison between them.
- 5. Which of the following graphs would best show the data collected between the two cities:
 - Pie Chart
 - Pictogram
 - Line Graph
 - Bar Chart

Draw the appropriate graph



Laura designs a survey to find the average distance and time taken for employees to travel to work by car. She takes a small sample of 10 people and records the following data

- A. Avg Speed: 30mph Time Taken: 20 minutes
- B. Avg Speed: 30mph Distance: 6 miles
- C. Distance: 7.5 miles Time Taken: 25 minutes
- D. Avg Speed: 40mph Time Taken: 40 minutes
- E. Avg Speed: 30mph Time Taken: 15 minutes
- F. Distance: 3 miles Time Taken: 10 minutes
- G. Distance: 5.5 miles Time Taken: 27 minutes
- H. Avg Speed: 28mph Distance: 6 miles
- I. Distance: 8 miles Time Taken: 42 minutes
- J. Avg Speed: 30mph Time Taken: 15 minutes

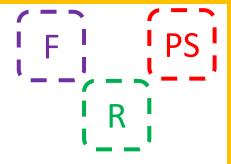
- 6. Calculate the following:
 - Mean time taken
 - Median distance travelled
 - Range of speed
- 7. Write a paragraph analysing the data that Laura collected.
- 8. Which of the following graphs would best show the data that Laura has collected.
 - Pie Chart
 - Pictogram
 - Line Graph
 - Bar Chart

Draw the appropriate graph

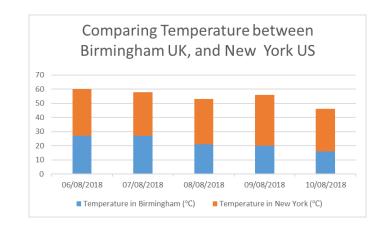
Formulae you will need:

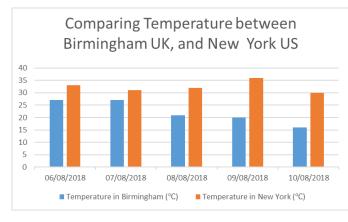
$$speed = \frac{distance}{time}$$

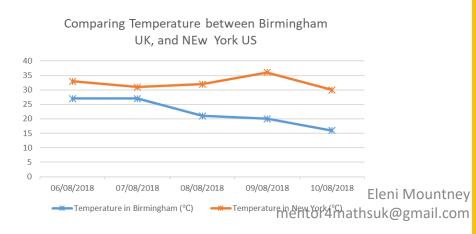
$$T_C = \frac{5}{9}(T_F - 32)$$

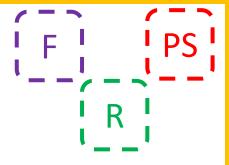


- 1. 6th or 8th August
- 2. 10th August
- 3. 22.2°C Birmingham, 32.4°C New York, difference 10.2°C
- 4. Birmingham Mean: 22.2°C, Mode: 27°C
- 5. Line Graph or bar chart









6.

- Mean time taken = 21.9 minutes
- Median distance travelled = 7.5 miles
- Range of speed = 28.6mph

7. They must make a good comparison of the following data.

Person	Speed (mph)	Distance (miles)	Time (minutes)
Α	30	10	20
В	30	6	12
С	18	7.5	25
D	40	26.7	40
Е	30	7.5	15
F	18	3	10
G	12.2	5.5	27
Н	28	6	13
I	11.4	8	42
J	30	7.5	15

8. Bar chart would be the best to show all data on the same graph

