

Mode, Mean and Range of Winter Weather

Describe what the range of data is:

Describe what the mode of data is:

Describe what the mean of data is:

1. Each day for a week in January, the highest temperatures in Perth were recorded.

Mon	Tues	Wed	Thurs	Fri	Sat	Sun
3°C	4°C	7°C	7°C	6°C	8°C	7°C

a. What is the total of these temperatures?

b. What is the mode of these temperatures?

c. What is the mean of these temperatures?

d. What is the range of these temperatures?

2. In Callander, the temperature was recorded every hour for eight hours during the day.

2°C 2°C 7°C 9°C 11°C 8°C 5°C 4°C

a. What is the mode of these temperatures?

b. What is the mean of these temperatures?

c. What is the range of these temperatures?

3. In Sydney, Australia, their winter is during our summer! In July, the following temperatures were recorded.

11°C 16°C 17°C 13°C 11°C 9°C 10°C 12°C 6°C 11°C 7°C 9°C

a. What is the highest temperature recorded?

b. What is the lowest temperature recorded?

c. What is the total of these temperatures?

d. What is the mode of these temperatures?

e. What is the mean of these temperatures?

f. What is the range of these temperatures?

4. Here is the rainfall in Tain for a week in January.

Mon	Tues	Wed	Thurs	Fri	Sat	Sun
7mm	6mm	0mm	0mm	3mm	5mm	0mm

a. Which day did the lowest rainfall occur and how much rain fell?

b. What is the mode of this rainfall?

c. What is the mean of this rainfall?

d. What is the range of this rainfall?

5. The average snowfall in the Cairngorms mountains over December and January is measured each week.

Week One	Week Two	Week Three	Week Four	Week Five	Week Six	Week Seven	Week Eight
3cm	5cm	8cm	9cm	7cm	5cm	1cm	2cm

a. What was the total amount of snowfall during the eight weeks?

b. What is the mode of this snowfall?

c. What is the mean of this snowfall?

d. What is the range of this snowfall?

Mode, Mean and Range of Winter Weather **Answers**

Describe what the range of data is:

The range is the difference between the highest and lowest number in a set.

Describe what the mode of data is:

The mode is the number which appears the most in a set of data.

Describe what the mean of data is:

The mean is the average of a set of data; it is worked out by adding all the values together and then dividing the total by how many numbers there were in the set.

1. Each day for a week in January, the highest temperatures in Perth were recorded.
 - a. What is the total of these temperatures?
42°C
 - b. What is the mode of these temperatures?
Mode 7°C
 - c. What is the mean of these temperatures?
Mean 6°C
 - d. What is the range of these temperatures?
Range 5°C

2. In Callander, the temperature was recorded every hour for eight hours during the day.
 - a. What is the mode of these temperatures?
Mode 2°C
 - b. What is the mean of these temperatures?
Mean 6°C
 - c. What is the range of these temperatures?
Range 9°C

3. In Sydney, Australia, their winter is during our summer! In July, the following temperatures were recorded.
- What is the highest temperature recorded?
Highest 17°C
 - What is the lowest temperature recorded?
Lowest 6°C
 - What is the total of these temperatures?
Total 132°C
 - What is the mode of these temperatures?
Mode 11°C
 - What is the mean of these temperatures?
Mean 11°C
 - What is the range of these temperatures?
Range 11°C
4. Here is the rainfall in Tain for a week in January.
- Which day did the lowest rainfall occur and how much rain fell?
On Wednesday, Thursday and Sunday no rain fell
 - What is the mode of this rainfall?
Mode 0mm
 - What is the mean of this rainfall?
Mean 3mm
 - What is the range of this rainfall?
Range 7mm
5. The average snowfall in the Cairngorms mountains over December and January is measured each week.
- What was the total amount of snowfall during the eight weeks?
Total 40cm
 - What is the mode of this snowfall?
Mode 5cm
 - What is the mean of this snowfall?
Mean 5cm
 - What is the range of this snowfall?
Range 8cm