

Summer Term Maths Year 10

Day
2

Week 10

Know the averages and when each average is appropriate

1 Find the mean of each set of data.

- a) 2 kg, 5 kg, 8 kg, 4 kg, 11 kg **6 kg**
b) 0, 3, 9, 2, 2, 11, 15, 32, 7 **9**
c) 2.75 m, 8.34 m, 5 m, 12.3 m **7.10m**
d) 200 g, 300 g, 480g, 1.1kg **520g**

2 Find the median of each set of data.

- a) 2, 4, 5, 8, 11 **5**
b) 2, 5, 8, 4, 11 **5**
c) 63p, £1.40, £4.10, 80p **£1.73**
e) 1.7m, 90 cm, 35 cm, 3 m, 125 cm **1.44m**

3 Find the mode of each set of data.

- a) 5, 1, 3, 2, 9, 3 **3**
b) 17, 11, 9, 9, 17, 6, 9 **9**
c) 0, 1, 2, 3, 4, 5, 6, 7 **none**
d) red, blue, red, orange, yellow, **red**
green, yellow, blue, red, red, white

4 Six numbers have a mode of 19, a mean of 12 and a median of 14

Fill in the cards to show what the numbers could be.

2 **4** **13** **15** **19** **19**

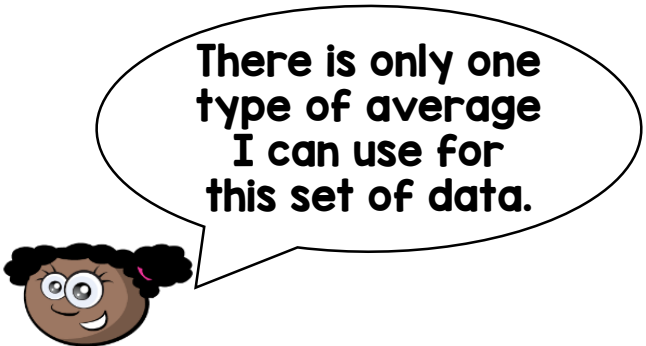
Many possible answers. Your 6 numbers must sum to 72, have more number 19's and the two centre numbers sum to 28.

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- 5 Whitney asks a group of friends what their favourite colour is.



There is only one type of average I can use for this set of data.

Whitney is correct. Circle the average she can use.

mean

median

mode

Explain your choice.

It does not take into account his longest jump

- 6 Amir is practicing his long jump for school sports day.

Here are the distances he jumps:

0.36 m 3.27 m 3.66 m 2.99 m 3.92 m

- a) Explain why the mode would not be a good average to use to represent Amir's long jump distances.

There is no mode

- b) Work out the mean long jump distance.

2.84m

- c) Work out the median distance.

3.27m

- d) Which is the best average to represent the distances Amir has jumped?

median