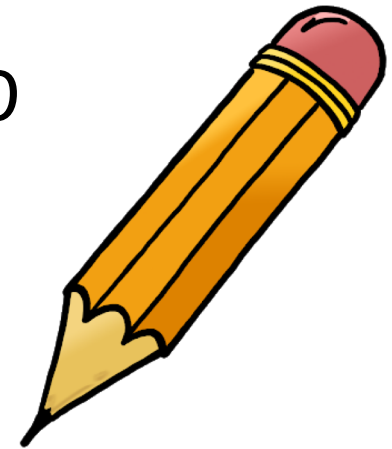


Year 6

Tuesday 21st April 2020
Maths



Median, mode and range.

Starter:

Mr Mussell learns Spanish every day on Duo Lingo. What is the *mean average* time he spends per day?

Day	minutes
Monday	5
Tuesday	8
Wednesday	15
Thursday	25
Friday	17

Riddle of the day:

What is the worst vegetable to have on a ship?

Remembering the **mode**.

The **mode** is the most frequent value. The number that appears the most within a given set of data (numbers).

For example:

Given set of numbers

4, 9, 6, 4, 7, 6, 5, 4

The **mode** is 4 because it appears the most times.

Your turn – find the **mode**.

a) 5, 6, 11, 4, 9, 12, 11,

b) 1, 1, 4, 1, 3, 0, 3, 1, 0

c) 15, 27, 35, 12, 17, 12

d) 34, 67, 11, 55, 55, 34, 55

Remembering the **median**.

The **median** is the middle number in a list of numbers that is ordered from lowest to highest.

For example:

Given set of numbers

4, 9, 6, 4, 7, 6, 5, 4, 10

Re arranged in order

4, 4, 4, 5, **6**, 6, 7, 9, 10

The **Median** is 6 because it is in the middle.

Your turn – find the **median**.

a) 5, 6, 11, 4, 9, 12, 11,

b) 1, 1, 4, 1, 3, 0, 3, 1, 0

c) 15, 27, 35, 12, 17, 12

d) 34, 67, 11, 55, 55, 34, 55

Remembering the **range**.

The **range** is the difference between the lowest and highest value.

For example:

Given set of numbers

4, 9, 6, 4, 7, 6, 5, 4, 10

The difference between largest 10 and smallest 4 is...

$$10 - 4 = 6$$

The **Range** is 6

Your turn – find the **range**.

a) 5, 6, 11, 4, 9, 12, 11,

b) 1, 1, 4, 1, 3, 0, 3, 1, 0

c) 15, 27, 35, 12, 17, 12

d) 34, 67, 11, 55, 55, 34, 55

1. What is the **median**, **mode** and **range** of the GD (goal difference)?

2. What is the **median**, **mode** and **range** of the PTS (points)?

Premier League

<i>MATCHWEEK 27</i>		<i>P</i>	<i>GD</i>	<i>PTS</i>
1	 Liverpool	26	46	76
2	 Manchester City	27	39	57
3	 Leicester City	27	27	50
4	 Chelsea	27	8	44
5	 Manchester United	27	12	41
6	 Tottenham Hotspur	27	8	40
7	 Sheffield United	27	4	40
8	 Wolverhampton Wanderers	27	6	39
9	 Arsenal	27	3	37

Independent work

Independent work continues on the following slides.

There are six questions plus two extensions if you wish to challenge yourself.



1. The temperature in degrees Celsius over 4 days in August was 28, 32, 34 and 26.
What was the mean temperature?

2. Mohammed took 7 maths tests and got scores of 78, 81, 81, 84, 63, 72 and 77.
What was Mohammed's mode score?

3. Six children are measured in height.
Their heights are 140 cm, 156 cm, 134 cm, 142 cm, 130 cm and 144 cm.
What is the range of their heights?

4.

What is the mode of these numbers:
34, 45, 56, 45, 34, 46, 67, 34?

5.

What is the median of these numbers:
3.1, 3.5, 3.0, 3.6, 3.2?

6. The cost of 5 different chocolate bars is 35p, 62p, 43p, 54p and 22p.
What is the median cost?

Extension:

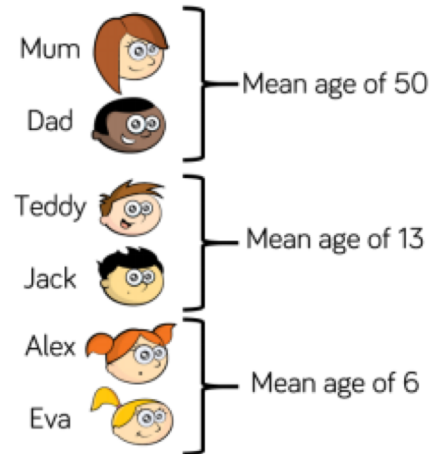
1)

The mean number of goals scored in 6 football matches was 4.
Use this information to calculate how many goals were scored in the 6th match:

Match number	Number of goals
1	8
2	4
3	6
4	2
5	1
6	

2)

Work out the age of each member of the family if:
Mum is 48 years old.
Teddy is 4 years older than Jack and 7 years older than Alex.



Mum



Dad



Teddy



Jack



Alex



Eva



Calculate the mean age of the whole family.