

# Year 6

## Home learning

### Maths

Day 8. Median, Mode & Range



# 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

# 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



## Task

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)?

<b>MATCHWEEK 27</b>		<b>P</b>	<b>GD</b>	<b>PTS</b>
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

## Task answer

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

Median = 8

Mode = 8

Range = 43

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

Median = 41

Mode = 40

Range = 39

Premier League			
MATCHWEEK 27	P	GD	PTS
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

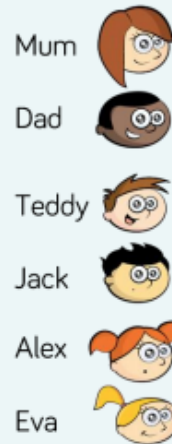
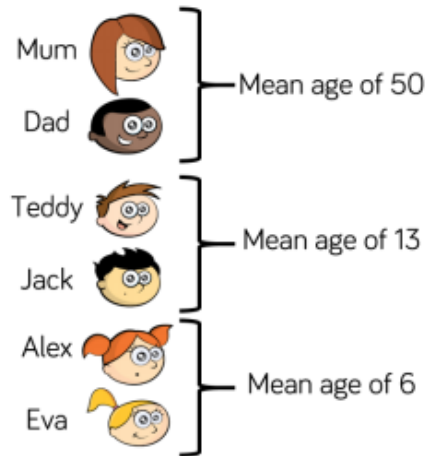
## Extension:

1)

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.



Calculate the mean age of the whole family.

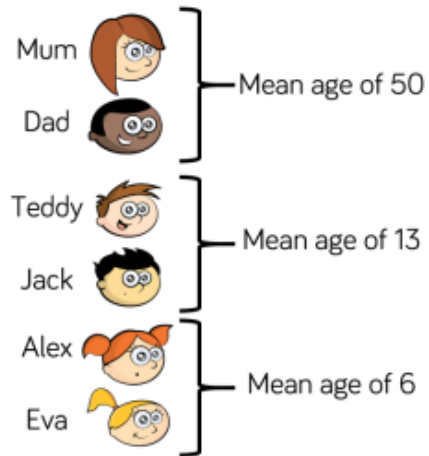
## Extension answer:

1)

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.



Calculate the mean age of the whole family.

Mum



Dad



Teddy



Jack



Alex



Eva

