Thursday

What does this show? What is the significance of the line?

Rainfall from May to August
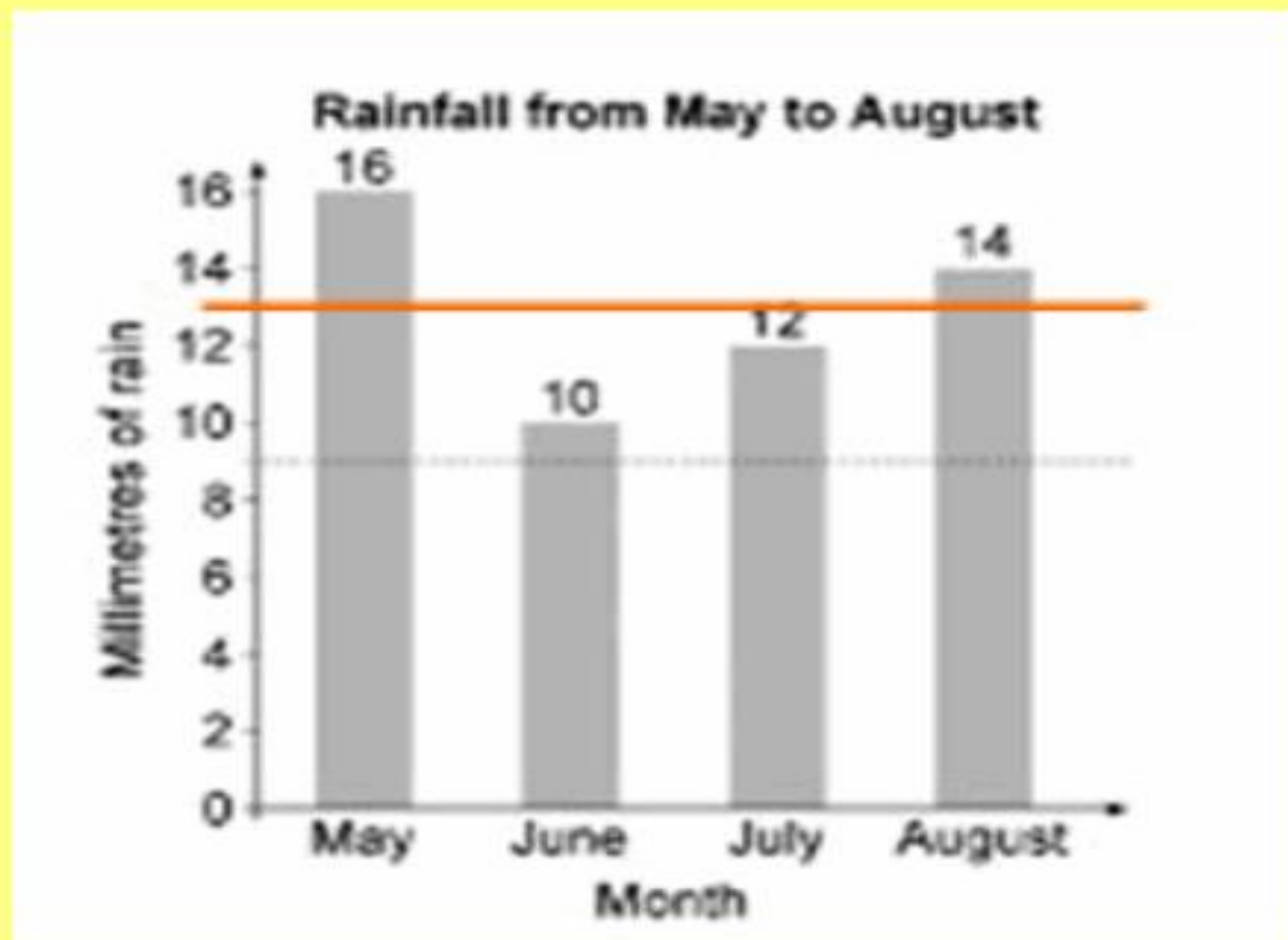
L.O. Calculate the mean of a set of data.

What is the mean?

The mean (average) of a set of data is the total divided by the number of items in the set.

The number of hours worked by a plumber each day. 11 8 5 9 6 10 7 9 4 6	Total hours	75 hours
	No. of days	10
	Mean	7·5 hours (75 ÷ 10)

A

Find the mean of each set of data.

1 The ages of the five children in a family.

5 5 8 12 15

2 The shoe sizes worn by eight women.
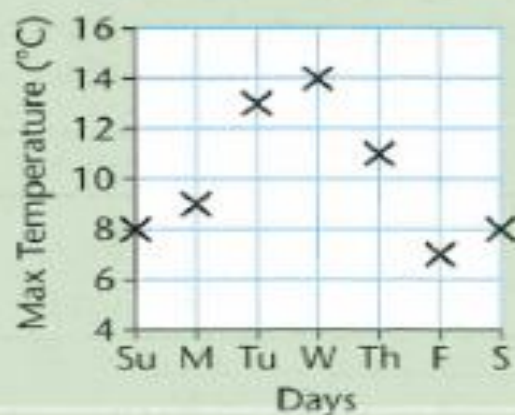
3 5 3 4 6 3 5 3

3 The marks out of 10 of nine children in a spelling test.

7 10 10 7 9
9 8 2 10

4 The number of people entering a shop each minute.

8 4 2 7 8 3
6 3 8 4 5 2

5 The daily maximum temperature in one week in November.

B

Find the mean of each set of data.

1 The estimated heights in metres of a rock face made by the climbers.

90 80 100 150 70
100 110 90 80 100

2 The ages of the eleven players in a football team.

26 24 17 20 26 28
19 30 25 17 21

3 The number of buses stopping each hour at a bus stop.

1 3 5 5 4 2 3 4
5 4 2 3 2 1 1

4 The number of people sitting at each table of a cafe.

4 1 0 2 1 4 1
1 4 3 4 1 0

5 The daily maximum temperatures in °C for one week in May.

20 16 19 14
13 18 19

L.O. Calculate the mean of a set of data.

C

Find the mean of each set of data.

1 The heights in metres of the nine members of a family.

1·3 1·6 1·2 1·9
1·1 0·9 1·7 1·2 1·7

2 The number of passengers getting off a bus at each of its first eight stops.

0 1 3 1 4 1 4 6

3 The average daily maximum temperature in °C for each month of a year.

  5 6 9 12 15 17
19 18 14 13 9 7

4 The daily maximum temperatures in °C for one week in February.

4 5 1 −2 −1 4 3

5 The number of people living in each of the 100 houses in a road.

People	3	4	5	6
Houses	20	35	30	15

L.O. Calculate the mean of a set of data.

Emma says that the mean of these netball scores is 6.
6, 7, 3, 7, 4, 3 Explain how you know that this cannot be correct.

There are three people in John's family. The mean of their shoe sizes is 7. Two people in the family have the same size feet. Dad has the biggest feet. His shoe size is 9. What is John's shoe size?

The school football team played five matches and their mean (average) score per game was six goals but they never scored six goals in any game. Investigate what their actual scores could have been.

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A

1 9   45÷5

2 4   32÷8

3 8   72÷9

4 5   66÷12

5 10°C   70÷7.

B

1 97   970

2 23   (253)

3 3   45

4 2   26

5 17   119.

C

1 1·4   12·6÷9

2 2·5   20÷8

3 12°C   144÷12

4 2°C   14÷7

5 4·4   440÷100

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