Area

LO: To be able to find the area of a triangle.

LO: To be able to find the mode, median and range

- 1) Zone
- 2) How to find the mode.
- 3) How to find the median.
- 4) How to find the range.
- 5) Follow up work.

Blue Zone Going slow	Green Zone Good to go	Yellow Zone Caution Starting to lose control	Red Zone Stop! Out of control
E.g. sad, sick, tired, bored	E.g. happy, calm, focused, ok	E.g. worried, excited, annoyed	E.g. angry, terrified, elated



Averages (The Mode)

The mode is the data value that occurs most frequently

Example 1. The number of matches in a random sample of 14 boxes were counted and the results are recorded below. Find the mode of the data.

Mode = 50 (as it occurs more often than the other numbers).





Averages (The Mode)

The mode is the data value that occurs most frequently

Example 2. Twenty people sat a maths test. Their marks out of 10 are recorded below. Find the modal mark for the test.



2, 5, 9, 3, 7, 6, 8, 6, 10, 4,

3, 2, 0, 9, 5, 1, 8, 6, 1, 5



Mode = 5 and 6



To find the mode;

- 1) Look at your list of either numerical or non numerical data. The value that comes up the most is your mode.
- 2) If you have two values that come up the same amount of times, they are both the mode.

Find the mode of the following sets of data.

Ewan - 5, 8, 1, 9, 2, 7, 2

2

Emmanuel - 8, 5, 9, 1, 7, 3, 5

5

Nathan - 720, 429, 429, 287, 287, 823, 429 429

Every body - 168, 163, 163, 168, 168, 163, 168 168

Every body - 25, 82, 98, 17, 12, 92, 5, 98, 12 98 & 12

To find the mode:

- 1) Look at your list of either numerical or non numerical data. The value that comes up the most is your mode.
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Averages (The Median)

The median is the middle value of a set of data once the data has been ordered.

Example 1. Robert hit 11 balls at Grimsby driving range. The recorded distances of his drives, measured in yards, are given below. Find the median distance for his drives.

85, 125, 130, 65, 100, 70, 75, 50, 140, 95, 70

50, 65, 70, 70, 75, 85, 95, 100, 125, 130, 140



Single middle value

Ordered data

Median drive = 85 yards





Example

The scores from a maths test were; 27, 14, 52, 16, 42

What is the median?

- 1) 14, 16, 27, 42, 52
- 2) What number is exactly in the middle? 27.



To find the median;

- 1) Put all of the numbers in order starting from the smallest.
- 2) Find the middle number.

Find the median of the following sets of data.

Ewan - 5, 8, 1, 9, 2, 7, 2

5

Emmanuel - 25, 82, 69, 17, 34, 92, 5,

34

Nathan - 8, 2, 9, 1, 7, 3, 5

5

Everybody - 720, 632, 730, 287, 964, 823, 429 720

Everybody - 3, 5, 1, 7, 4, 9, 2,

4

To find the median;

- 1) Put all of the numbers in order starting from the smallest.
- 2) Find the middle number.



- 1) Identify the highest number and lowest number in your list.
- 2)Find the value of the highest number take away the lowest number



Example

The scores from a maths test were; 27, 14, 58, 16, 42

What is the range?

1) What are the highest and lowest numbers?

58 and 14

2) What is the highest number, takeaway the smallest

number?

58 - 14 = 44

The range is 44.

- 1) Identify the highest number and lowest number in your list.
- 2)Find the value of the highest number take away the lowest number

Find the range of the following sets of data.

Ewan - 81, 1, 29, 2, 73

80

Emmanuel - 85, 17, 34, 92, 5,

80

Nathan - 28, 72, 90, 10, 72

80

Everybody - 720, 632, 730, 287, 964, 823, 429 720

Everybody - 3, 5, 1, 7, 4, 9, 2,

4

- 1) Identify the highest number and lowest number in your list.
- 2) Find the value of the highest number take away the lowest number

Find the mode, median and range of the following data examples;

1) 2, 6, 3, 6, 5, 9, 3, 6, 4

2) 11, 63, 24, 33, 63, 21, 19, 56

3) 143, 265, 34, 76, 865, 444, 143, 222, 76, 456, 999

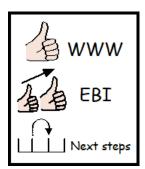
To find the mode;

- 1) Look at your list of either numerical or non numerical data. The value that comes up the most is your mode.
- 2) If you have two values that come up the same amount of times, they are both the mode.

To find the median;

- 1) Put all of the numbers in order starting from the smallest.
- 2) Find the middle number.

- 1) Identify the highest number and lowest number in your list.
- 2) Find the value of the highest number take away the lowest number

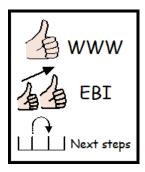


LO: To be able to find the area of rectangles.

WWW

EBI

Blue Zone Going slow	Green Zone Good to go	Yellow Zone Caution Starting to lose control	Red Zone Stop! Out of control
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LO: To be able to find the mode, median and range.

Follow up work

- 1) Mode Worksheet
- 2) Median worksheet
- 3) Range Worksheet

For ALL worksheets you can either print out and write your answers on, or write your answers on paper.

Please take pictures of your work and email to jo.gould@grangepark.kent.sch.uk