Averages

LO: To compare sets of data using average and spread

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1) Zone

2) Recap how to find 3 averages and range.

3) Compare data using averages.

4) Practice question.

6) Follow up work

Blue Zone	Green Zone	Yellow Zone Image: Constraint of the second starting to lose control	Red Zone Frank Stop! Out of control
E.g. sad, sick, tired,	E.g. happy, calm,	E.g. worried, excited,	E.g. angry, terrified,
bored	focused, ok	annoyed	elated

Starter question

Find the mode, median, range and mean of this set of data: 5m, 0.5m, 3m, 5m, 4m, 5m, 1m. 0.5m

To find the mode;

- 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.
- 3) If there are 2 numbers in the middle, Add them together and divide by 2.

Starter question

Find the mode, median, range and mean of this set of data: 5m, 0.5m, 3m, 5m, 4m, 5m, 1m. 0.5m

To find the range;

- 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 mean of a set of data.

To find the mean;

- 1) Add all of the values together.
- 2) Divide by the number of values you have. This is the mean.

What I'll Learn Today...

- To use the mean, median or mode to compare averages of two or more sets of data.
- To use the range to compare spread of two or more sets of data.



Use an average and a measure of spread to compare two sets of data.

Averages: median, mean, mode

Spread: range - A big range, means more variation in the data. A big range means the data is less consistent. A small range means the data is more consistent



Brothers, Richard and Peter Chambers recorded their last 7 times for 100m rowing (In seconds):



Richard	16	15	21	12	20	14	12
Peter	14	10	21	14	13	24	11

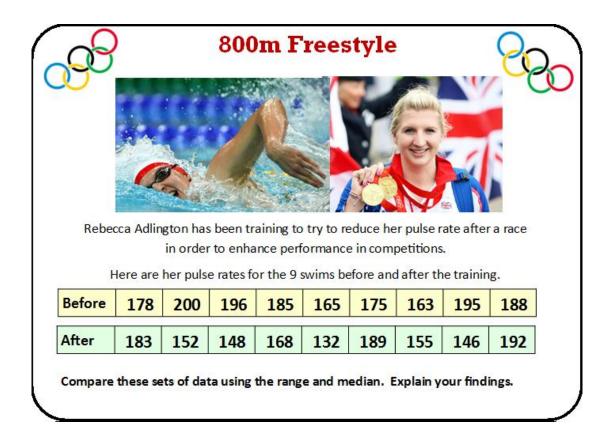
Compare these sets of data using the median and range.

Richard - Median = Range =

Example 2 Here are some results from the long jump final:

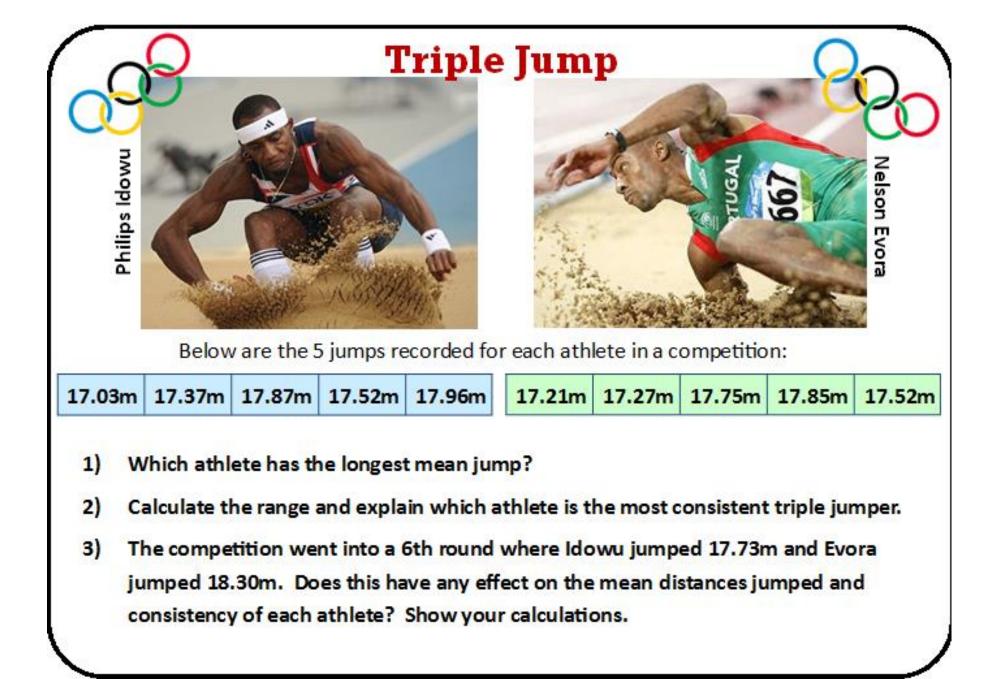


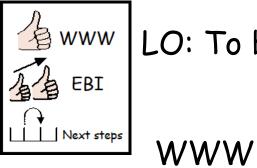
- a) Find the mean and range of both sets of data.
- b) Compare the data using the mean and range.
- Jade Mean = Brittney Mean = Range =



4x400m I	Relay		ę	S
	Shana	Christine	Nicola	Perri
	52.03	51.39	52.26	51.52
MAD	<mark>51.36</mark>	52.02	51.14	51.51
	51.27	51.30	51.32	<mark>51.59</mark>
	52.22	51.21	52.65	51.48
GBR STANBUL 2012	52.82	51.48	52.48	51.50
imes by calculating t	he mean a	and range of		
	imes by calculating t	Shana 52.03 51.36 51.27 52.22 52.82	52.03 51.39 51.36 52.02 51.27 51.30 52.22 51.21 52.82 51.48	Shana Christine Nicola 52.03 51.39 52.26 51.36 52.02 51.14 51.27 51.30 51.32 52.22 51.21 52.65 52.82 51.48 52.48

3) The Olympic committee want to select one of the athletes for the womens 400m race. Who should they use? How did you decide this?

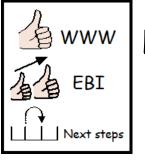




LO: To be able to find the area of rectangles.

EBI

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LO: To be able to use average and spread to compare data. Follow up work

- 1) Mixed Averages worksheet.
- 2) Olympic comparison 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