Math Made Easy: Finding the mode, mean, median, and range of a set of numbers (part 2)

http://www.youtube.com/watch?v=tgxZfQDf4qY

Listen to and watch the video and try to answer the questions.

1.	What is the mean of a set of numbers?
2.	Why should you be interested in a 7 day weather forecast?
3.	Is this forecast reliable?
4.	How do you proceed if you want to get a mean of a set?
	a)
	b)
5.]	How do you round numbers?

Work with your neighbor and try to describe how you can find

	the mode of a set
	••••••
2.	the median of a set
	the range of a set.

6. Look at this table:

	What is the height of that building?	How high is that building?	QUESTION
It has a height of 200 m.	The height of that building is 200 m. OR	It is 200 m high.	ANSWER

Use the table to ask and answer questions about the following: (Note: The first pair is not always possible, and should not be used in



Now make similar sentences beginning with the following words:

Velocity

<u>e</u> ල ල ළ Mass Time The newton The joule

The watt

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Section 3 Reading

œ Read this:

Different kinds of average

The word 'average' is used frequently; for example, we talk about 'the average mark' in a test, the 'average rainfall' for a particular some examples. Sun There are, however, many different kinds of average; here are geographical location, or the 'average distance' of the Earth from the

The arithmetical mean

Mon.

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a particular week. The results are shown above. The 'average' is In a certain town, the temperature is recorded at mid-day each day in

 $\frac{13+12+5+8+4+5+9}{2} = 8$, and this is called the arithmetical mean.



2° C, i.e. the *range* is from 18° to 2° C, and 18° C and 2° C are the *extremes* of shows that the maximum temperature the range. The 'average' yesterday was 18° C and the minimum A maximum~minimum thermometer

 $\frac{18+2}{2} = 10^{\circ}$ C is called the mean of

the extremes or the midrange.

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• The degree Celsius is a unit of temperature. Temperature is measured in degrees Celsius.

NUCLEUS MATHEMATICS, D. HALL, LONG MAN, 1980



9. Solve these problems:

(c.g. 2, 4, 6, 8,) but geometrically (c.g. 2, 4, 8, 16, 32,). The

10 and 200 i.e. 105, because population does not grow arithmetically

geometric mean of 10 and 200 is $\sqrt{10 \times 200} \approx 45$

many did he have in 1960? The answer is not the arithmetical mean of A man bought ten rabbits in 1950. In 1970, he had 200 rabbits. How

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Find-the median, the mode, the arithmetical mean and the

midrange of the following set of values. 11 14 16 4 9 9 14

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Find the geometric mean of the following pairs: 3 and 27; 10 and 1000; 2 and 8192

1950

1970

1960

5 The geometric mean

average: central minimum square root divided number sum divided occurs sum maximum ordered value product value of the members of a) The arithmetical mean of a set is the of the members. of members. b) The midrange of a set is the of the members. and c) The mode of a set is the of the most	•	frequently.	frequently	
average: central minimum square root divided number sum divided occurs sum maximum ordered value product value of the member a) The arithmetical mean of a set is the of the member b) The midrange of a set is the of the	by two.	values of a set is	The mo	
average: central minimum square root divided number sum divided occurs sum maximum ordered value product value of the member a) The arithmetical mean of a set is the of the member the set by the of members.		ange of a set	b) The midr	
average: central minimum square root divided number sum divided occurs sum maximum ordered value product	a set is the of the member	netical mean of	a) The arithr	
average: central minimum square root divided number sum divided occurs sum maximum ordered value		product		
average: central minimum square root divided number sum divided occurs sum	value	ordered	maximum	
average: central minimum square root divided number sum	SUIN	occurs	divided	
average: central minimum square root	SUIN	number	divided	
average:	square root	minimum	central	
			werage:	

- a set is the of members. _____ of the and
- a set et is the by two. --- which --nost
- ල ල
- The median of a set is the --- value of an _---Set.
- The geometric mean of two numbers is the _ of the numbers. of the
- 11. Read and answer:

The following sets of numbers are arithmetical or geometrical *progressions*. Decide which is which and say why.

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