

Measure of Central Tendency

Mean, Median, Mode

D1.2 [Representation and Analysis of Data] represent and statistically analyse data from a real-life situation involving a single variable in various ways, including the use of quartile values and box plots

D2.1 [Application of Mathematical Modelling] describe the value of mathematical modelling and how it is used in real life to inform decisions

*C2.1 [Coding] use coding to demonstrate an understanding of algebraic concepts including variables, ****parameters****, equations, and inequalities*

GROWING SUCCESS

ASSESSMENT, EVALUATION,
AND REPORTING
IN ONTARIO SCHOOLS

First Edition, Covering Grades 1 to 12

2010



This is the document
that is used by
teachers in Ontario to
determine student's
grades.

It says: “Teachers’ professional judgement and interpretation of evidence and should reflect the student’s most consistent level of achievement, with special consideration given to more recent evidence.”

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Which is normally summarized as: “most recent, most consistent”.



How many students
in this tiny class?

Q11

fx

A

B

C

D

E

F

G

H

I

J

K

L

M

N

O

1 What Mark Should They Get?

2 Remember: Each student needs a final grade AND a report card comment justifying your choice.

3

4 Summary Information

Semester Data

5		Min	Median	Mode	Mean	Max		1	2	3	4	5	6	7	8
6	Zara Bellum							100	100	95	92	98	96	100	98
7	Ida Knowe							40	40	50	60	70	80	90	100
8	Ali Gaither							100	90	80	70	60	50	40	40
9	Ella Vader							70	71	72	73	74	82	83	100
10	Warren Peace							80	84	79	82	80	80	80	76

How many assignments did each student complete?

Q11

fx

A

B

C

D

E

F

G

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1 What Mark Should They Get?

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10	Warren Peace						80	84	79	82	80	80	80	76

You need to determine the most recent and most consistent mark for each student.

Then, justify your choice in a report card comment.

Q11

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	What Mark Should They Get?														
2	Remember: Each student needs a final grade AND a report card comment justifying your choice.														
3															
4	Summary Information						Semester Data								
5		Min	Median	Mode	Mean	Max		1	2	3	4	5	6	7	8
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10	Warren Peace							80	84	79	82	80	80	80	76

The screenshot shows a YouTube video player with a Google Sheets spreadsheet embedded. The spreadsheet has the following content:

Row 1: What Mark Should They Get?

Row 2: Remember: Each student needs a final grade AND a report card comment justifying your choice.

		Semester Data							
	Max	1	2	3	4	5	6	7	8
		100	100	95	92	98	96	100	98
		40	40	50	60	70	80	90	100
		100	90	80	70	60	50	40	40
		70	71	72	73	74	82	83	100
		80	84	79	82	80	80	80	76

Video Title: Mean Median Mode in Google Sheets

Video Status: Unlisted

You can find some details about how to calculate things in google sheets here: <https://youtu.be/9P4FfGfSk1A>

Complete Task
2A now.

If you are done
early, try the tasks
on the other
spreadsheet tabs.

https://docs.google.com/spreadsheets/d/1qzJ3As6qGb0FdQyyIgsq296H3CP008L4KsmM_mEwuhE/edit?usp=sharing

What's this?

This holds a formula, how can you tell?

B6		<i>fx</i>	=min(H6:O6)													
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	
1	What Mark Should They Get?															
2	Remember: Each student needs a final grade AND a report card comment justifying your choice.															
3																
4	Summary Information						Semester Data									
5		92 x	Median	Mode	Mean	Max		1	2	3	4	5	6	7	8	
6	Zara Bellum	=min(H6:O6)						100	100	95	92	98	96	100	98	
7	Ida Knowe							40	40	50	60	70	80	90	100	
8	Ali Gaither							100	90	80	70	60	50	40	40	
9	Ella Vader							70	71	72	73	74	82	83	100	
10	Warren Peace							80	84	79	82	80	80	80	76	

What's this?

Cell that is selected.

This holds a formula, how can you tell?

= sign in the front, among other things.

B6		<i>fx</i>	=min(H6:O6)														
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O		
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What's this?

It is the **function name**. This is the name of the piece of code that finds the minimum.

B6 fx =min(H6:O6)

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The information in the brackets is called a **parameter**.

What do you think a parameter does?

B6 fx =min(H6:O6)

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10	Warren Peace							80	84	79	82	80	80	80	76

The information in the brackets is called a **parameter**.

What do you think a parameter does?

It sends information into the function so that the function knows how to do the calculation.

B6 fx =min(H6:O6)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	What Mark Should They Get?														
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Why use functions instead of typing in the answer?

B6		<i>fx</i>	=min(H6:O6)														
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1	What Mark Should They Get?																
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Why use functions instead of typing in the answer?

Functions automatically recalculate when you change the numbers.

Also, they are faster than calculating it yourself for a large dataset. Say you want the median of 25,000 numbers...that's hard by hand.

B6 fx =min(H6:O6)

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	What Mark Should They Get?														
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