

Qualification Type: OQ

Section # Test Case # Title

8.1. 2 Test Case: Calculation Worksheet and the Plotting Mass vs. Volume Chart

Purpose

To demonstrate functionality of the Calculation Worksheet and the Plotting Mass vs. Volume chart.

Acceptance Criteria

The Calculation Worksheet:

Allows users to enter appropriate values for Sample, Mass and Volume.

Calculates Maximum(Volume), Minimum(Volume) and Average(Volume).

Calculates Volume^2.

Allows users to secure and unsecure data by adding or removing electronic signatures.

Is properly formatted for printing.

Records changes in user data to the ExcelSafe audit trail.

The Plotting Mass vs. Volume Chart:

Plots Mass (X-axis) vs. Volume (Y-axis).

Plots Volume and Volume^2.

Test Case: 2. Test Case: Calculation Worksheet and the Plotting Mass vs. Volume Chart

Step #	Procedure	Expected Result	Actual Result	P / F	Init.	Date
The Calculation Worksheet allows users to enter appropriate values for Sample, Mass and Volume.						
1	Open the Example Validation spreadsheet through ExcelSafe. Navigate to the Calculation worksheet.	The Example Validation spreadsheet opens without error. The Calculation worksheet opens without error.	The Example Validation spreadsheet opens without error. The Calculation worksheet opens without error. (Note: Created instance of Example Validation spreadsheet Case7dot1.xls for this case.	Pass	DW	12-Nov-08
2	Navigate to cell range A6:A36, Sample. Verify that the cell range accepts data entry.	Cell range A6:A36 accepts data entry.	Cell range A6:A36 accepts data entry.	Pass	DW	12-Nov-08

Snapshot from test step #2

	A	B	C	D
1				
2	Plotting Mass vs. Volume			
3	Instructions: Enter Sample ID, Mass and Volume. Ap			
4				
5	Sample	Mass	Volume	Volume^2
6	A01			0
7	A02			0
8	A03			0
9	A04			0
10	A05			0
11	A06			0
12	A07			0
13	A08			0
14				0

Snapshot from TC2_Step2

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3	Navigate to cell range B6:B36, Mass. Verify that the cell range accepts data entry.	Cell range B6:B36 accepts data entry.	Cell range B6:B36 accepts data entry.	Pass	DW	12-Nov-08
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Test Case: 2. Test Case: Calculation Worksheet and the Plotting Mass vs. Volume Chart

Step #	Procedure	Expected Result	Actual Result	P / F	Init.	Date
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Snapshot from test step #3

	A	B	C	D
1				
2	Plotting Mass vs. Volume			
3	Instructions: Enter Sample ID, Mass and Volume. Ap			
4				
5	Sample	Mass	Volume	Volume^2
6	A01	1		0
7	A02	2		0
8	A03	3		0
9	A04	4		0
10	A05	5		0
11	A06	6		0
12	A07	7		0
13	A08	8		0
14				

Snapshot from TC2_Step3

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4	Navigate to cell range C6:C36, Volume. Verify that the cell range accepts data entry.	Cell range C6:C36 accepts data entry.	Cell range C6:C36 accepts data entry.	Pass	DW	12-Nov-08
The Calculation Worksheet calculates Maximum(Volume), Minimum(Volume) and Average(Volume).						
5	Navigate to the cell G6, Max(Volume). Record the calculation cell G6 should perform.	Calculation in cell G6 recorded.	Calculation in cell G6 recorded. Calculation: Computes the maximum value of volume.	Pass	DW	12-Nov-08
6	Record the formula in cell G6. Verify that the formula correctly models the intended calculation.	Formula in cell G6 recorded. The formula correctly models the intended calculation.	Calculation recorded. Calculation: =MAX(C6:C36) The formula correctly models the intended calculation.	Pass	DW	12-Nov-08
7	Manually perform the calculation in cell G6. Verify that the manual calculation matches the spreadsheet calculation.	The manual calculation matches the spreadsheet calculation.	The manual calculation matches the spreadsheet calculation. Manual Calculation: 4 (4 is the maximum value of 0.5, 1, 1.5, 2, 2.5, 3, 3.5 and 4. See screen shot in Step 4.) Spreadsheet Calculation: 4	Pass	DW	12-Nov-08

Snapshot from test step #7

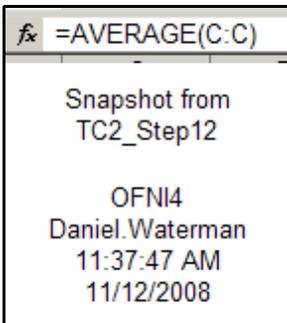
Max(Volume) =	4
Snapshot from TC2_Step7	
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8	Navigate to the cell G8, Min(Volume). Record the calculation cell G8 should perform.	Calculation in cell G8 recorded.	Calculation in cell G8 recorded. Calculation: Computes the minimum value of volume.	Pass	DW	12-Nov-08
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Test Case: 2. Test Case: Calculation Worksheet and the Plotting Mass vs. Volume Chart

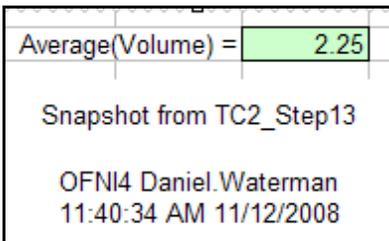
Step #	Procedure	Expected Result	Actual Result	P / F	Init.	Date
9	Record the formula in cell G8. Verify that the formula correctly models the intended calculation.	Formula in cell G8 recorded. The formula correctly models the intended calculation.	Calculation recorded. Calculation: =MIN(C6:C36) The formula correctly models the intended calculation.	Pass	DW	12-Nov-08
10	Manually perform the calculation in cell G8. Verify that the manual calculation matches the spreadsheet calculation.	The manual calculation matches the spreadsheet calculation.	The manual calculation matches the spreadsheet calculation. Manual Calculation: 0.5 (0.5 is the minimum value of 0.5, 1, 1.5, 2, 2.5, 3, 3.5 and 4. See screen shot in Step 4.) Spreadsheet Calculation: 0.5	Pass	DW	12-Nov-08
11	Navigate to the cell G10, Average(Volume). Record the calculation cell G10 should perform.	Calculation in cell G10 recorded.	Calculation in cell G10 recorded. Calculation: Computes the average value of all volume data. Average(Volume) = Sum(Volume)/Count(Volume)	Pass	DW	12-Nov-08
12	Record the formula in cell G10. Verify that the formula correctly models the intended calculation.	Formula in cell G10 recorded. The formula correctly models the intended calculation.	Calculation recorded. Calculation: =AVERAGE(C6:C36) The formula correctly models the intended calculation.	Pass	DW	12-Nov-08

Snapshot from test step #12



13	Manually perform the calculation in cell G10. Verify that the manual calculation matches the spreadsheet calculation.	The manual calculation matches the spreadsheet calculation.	The manual calculation matches the spreadsheet calculation. Manual Calculation: 2.25 (0.5 + 1 + 1.5 + 2 + 2.5 + 3 + 3.5 + 4 = 18. 18/8 = 2.25.) Spreadsheet Calculation: 2.25	Pass	DW	12-Nov-08
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Snapshot from test step #13



The Calculation Worksheet calculates Volume^2.

14	Navigate to cell range D6:D36, (C6:C)^2. Record the calculation cell range D6:D36 should perform in absolute terms and in relative terms.	Calculation recorded.	Calculation recorded. Absolute Calculation: Square the value of the volume cell Relative Calculation: =(C-1)^2	Pass	DW	12-Nov-08
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