

Practical work 1

Statistical Functions

This section gives an overview of some very useful statistical functions in Excel.

Average

To calculate the average of a group of numbers, use the AVERAGE function.

A3																
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	0	7	8	6	5	9	8	7	4	8	0	3	5	6	8	
2																
3	5.6															
4																

Averageif

To average cells based on one criteria, use the AVERAGEIF function. For example, to calculate the average excluding zeros.

A3																
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	0	7	8	6	5	9	8	7	4	8	0	3	5	6	8	
2																
3	6.46															
4																

Median

To find the median (or middle number), use the MEDIAN function.

A3																
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	0	7	8	6	5	9	8	7	4	8	0	3	5	6	8	
2																
3	6															
4																

Check:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	0	0	3	4	5	5	6	6	7	7	8	8	8	8	9	

Mode

To find the most frequently occurring number, use the **MODE** function.

[illegible]

Standard Deviation

To calculate the standard deviation, use the STEDV function.

[illegible]

Min

To find the minimum value, use the MIN function.

[illegible]

Max

To find the maximum value, use the **MAX** function.

[illegible]

Large

To find the third largest number, use the following LARGE function.

A3																	
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	
1	0	7	8	6	5	9	8	7	4	8	0	3	5	6	8		
2																	
3	8																
4																	

Check:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	0	0	3	4	5	5	6	6	7	7	8	8	8	8	9	

Small

To find the second smallest number, use the following SMALL function.

A3																
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	0	7	8	6	5	9	8	7	4	8	0	3	5	6	8	
2																
3	0															
4																

Check:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	0	0	3	4	5	5	6	6	7	7	8	8	8	8	9	

Ex: Apply the above in series 2.