ARITHMETIC FUNCTION – ABS / INT / LARGE / SMALL / MAX / MIN / TRUNC

ABS

WHAT DOES IT DO?

- This function calculates the positive value of a number, irrespective of whether it is positive or negative

SYNTAX

- =ABS(CellAddress or Number)

	C	D	E
3	Number	Absolute Value	
4	25	25	=ABS(C4)
5	10	10	=ABS(C5)
6	-1.95	1.95	=ABS(C6)
7	-1.25	1.25	=ABS(C7)

INT

WHAT DOES IT DO?

- This function rounds a number down to the nearest whole number

SYNTAX

- =INT(Number)

EXAMPLE

	C	D	E
3	Number	Integer	
4	1.5	1	=INT(C4)
5	2.3	2	=INT(C5)
6	10.75	10	=INT(C6)
7	-1.47589	-2	=INT(C7)

LARGE

WHAT DOES IT DO?

- This function examines a list of values and picks the value at a user specified position in the list

SYNTAX

- =LARGE(ListOfNumbersToExamine,PositionToPickFrom)

EXAMPLE

	E	F	G	H	I
3	Highest Value	800	=LARGE(C4:C8,1)		Values
4	2nd Highest Value	250	=LARGE(C4:C8,2)		120
5	3rd Highest Value	120	=LARGE(C4:C8,3)		800
6	4th Highest Value	120	=LARGE(C4:C8,4)		100
7	5th Highest Value	100	=LARGE(C4:C8,5)		120
8					250

SMALL

WHAT DOES IT DO?

- This function examines a list of values and picks the value at a user specified position in the list

SYNTAX

- =SMALL(ListOfNumbersToExamine,PositionToPickFrom)

EXAMPLE

	E	F	G	H	I
3	Lowest Value	100	=SMALL(C4:C8,1)		Values
4	2nd Lowest Value	120	=SMALL(C4:C8,2)		120
5	3rd Lowest Value	120	=SMALL(C4:C8,3)		800
6	4th Lowest Value	250	=SMALL(C4:C8,4)		100
7	5th Lowest Value	800	=SMALL(C4:C8,5)		120
8					250

MAX

WHAT DOES IT DO?

- This function picks the highest value from a list of data

SYNTAX

- =MAX(Range1,Range2,Range3... through to Range30)

EXAMPLE

	C	D	E	F	G	H	I
3	Values					Maximum	
4	120	800	100	120	250	800	=MAX(C4:G4)
5							
6	Dates					Maximum	
7	1-Jan-07	25-Dec-07	31-Mar-07	27-Dec-07	4-Jul-07	27-Dec-07	=MAX(C7:G7)

MIN

WHAT DOES IT DO?

- This function picks the lowest value from a list of data

SYNTAX

- =MIN(Range1,Range2,Range3... through to Range30)

EXAMPLE

	C	D	E	F	G	H	I
3	Values					Minimum	
4	120	800	100	120	250	100	=MIN(C4:G4)
5							
6	Dates					Maximum	
7	1-Jan-07	25-Dec-07	31-Mar-07	27-Dec-07	4-Jul-07	1-Jan-07	=MIN(C7:G7)

TRUNC

WHAT DOES IT DO?

- This function removes the decimal part of a number, it does not actually round the number

SYNTAX

- =TRUNC(NumberToTruncate,Precision)

EXAMPLE

	C	D	E	F	G
3	Number	Truncation Precision	Truncated Number		
4	1.535358	0	1	=TRUNC(C4,D4)	
5	1.535358	1	1.5	=TRUNC(C5,D5)	
6	1.535358	2	1.53	=TRUNC(C6,D6)	
7	1.535358	1	1.5	=TRUNC(C7,D7)	
8	-1.535358	2	-1.53	=TRUNC(C8,D8)	
9	1546.458	-1	1540	=TRUNC(C9,D9)	
10	1546.458	-2	1500	=TRUNC(C10,D10)	
11	1546.458	-3	1000	=TRUNC(C11,D11)	