



Reference card

Cell referencing

	A	B	C	D	E
01.	A1		03.	=B1+C1	=C1+D1
				=B2+C2	=C2+D2
				=B3+C3	=C3+D3
02.					

01. Cell reference:

Address that identifies a cell by referring to its column letter and row number.

02. Range:

Address using two cell references separated by a colon.

03. Relative reference:

Reference that changes when copied across multiple cells based on the relative position of rows and columns.

04. Absolute reference:

Reference that does not change when copied across multiple cells.

Useful functions

01. Arithmetic mean

```
=AVERAGE(value1, [value2, ...])
=AVERAGEA(value1, [value2, ...])
```

Divide sum of values by number of arguments.
AVERAGEA evaluates Boolean and text while **AVERAGE** ignores them.

Ex. =AVERAGE(1,2,3) => 2
=AVERAGEA(1,TRUE) => 1

Power 02.

```
=POW(base, exponent)
=POWER(base, exponent)
```

Calculate the value of a number (base) raised to a certain exponent.

=POW(2, 3) => 8
=POWER(2, 3) => 8

03. Square root

```
=SQRT(value)
```

Calculates the square root of a given number.

Ex. =SQRT(4) => 2

Modulus 04.

```
=MOD(dividend, divisor)
```

Divides a number and gives the remainder as an answer.

=MOD(42363.33, 100) => 63.33

05. Rounding up

```
=CEILING(value, [factor])
=ROUNDUP(value, [places])
```

CEILING rounds up to nearest integer multiple of the specified factor.
ROUNDUP rounds up to a number of decimal places.

Ex. =CEILING(18.25, 2) => 20
=ROUNDUP(18.25, 2) => 18.25

Rounding down 06.

```
=FLOOR(value, [factor])
=ROUNDDOWN(value, [places])
```

FLOOR rounds down to the nearest multiple of the factor while
ROUNDDOWN rounds down to a number of decimal places.

=FLOOR(42363.33, 2) => 42362
=ROUNDDOWN(42363.33, 2) => 42363.33

```
=CEILING.PRECISE(value, [factor])
=CEILING.MATH(value, [factor], [mode])
```

Round up to the nearest integer or multiple of the specified factor.
CEILING.MATH also specifies whether the number is rounded down toward or away from zero.

Ex. =CEILING.PRECISE(-18.25, 2) => -18
=CEILING.MATH(-18.25, 2, -1) => -20

```
=FLOOR.PRECISE(value, [factor])
=FLOOR.MATH(value, [factor], [mode])
```

Round down to the nearest integer or multiple of the specified factor.
FLOOR.MATH also specifies whether the number is rounded down toward or away from zero.

=FLOOR.PRECISE(-42363.33, 2) => -42364
=FLOOR.MATH(-42363.33, 2, -1) => -42362