





► Formatting the cell entries:								
• For presentational reasons one can change the format in which								
the cell entries are displayed: Format \rightarrow Cells \rightarrow								
Format Cells								
Number Alignment Font Border Patterns Protection Category: Sample 3.142 Mumber general 3.142 Mumber general 3.142 Date general general Date general general Time Use 1000 Separator (,) Percentage Negative numbers: Fraction 1234.210 Special 1234.210 Custom 1234.210								
Number is used for general display of numbers. Currency and Accounting offer specialized formatting for monetary value.								
OK Cancel								
- One can change the category (type of data) and its associated								
properties.	4							
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- Alignment allows to change the horizontal or vertical position and the orientation of the text.
- Font gives options to change the typeface and the colour of the displayed entry.
- Border provides possibilities to change the style of the frame surrounding a cell.
- Pattern changes the background of the cell.
- Protection allows to protect cells from being changed.
- **•** Formatting the cell size:
 - Position the pointer on the dividing line between the name of the row/column (e.g. 5|6 / E|F) and drag the line to the desired size.
 - Alternatively use the menu bar:

Format \rightarrow Row \rightarrow Height or Format \rightarrow Column \rightarrow Width and change the numerical value, e.g. Row height: 12/75 15

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► The Autofill function:

- The Autofill function determines automatically the entries of some cells given some starting values. Avoids lots of typing!
- Expl.: Fill the column C1-C20 with 50-1000 with step 50, i.e.

 $50 \rightarrow C1, 100 \rightarrow C2, 150 \rightarrow C3, \dots, 1000 \rightarrow C20$

- fill in some starting values: $50 \rightarrow C1$, $100 \rightarrow C2$
- select the range of the starting values C1:C2
- while on top of the selected area the cursor will be 🕂
- move the cursor to the lower right corner of the selection, until the cursor changes from + to +
- drag the "fill handle" down (or to the right) and the new cells will be filled based on the initial selection, e.g. $150 \rightarrow C3,...$
- verify that Excel really filled in the sequence you wanted!!!
- Alternatively write just 50 into C1. Use Edit \rightarrow Fill \rightarrow Series with "Step value"=50, "Stop value"=1000 17





- In Excel and other major programming languages expressions					
are evaluated following a specific order of precedence f	or the				
arithmetic operators.					
- The order is:					
• negation: "-"					
• exponentiation: "^"					
 multiplication and division: "*", "/" 					
• addition and subtraction: "+", "-"					
- The order of precedence can be overwritten by parenthe	ses.				
Expl.: $-4^2 \rightarrow 16$					
$-(4^2) \rightarrow -16$					
$3^*(5+6) \rightarrow 33$					
$3*5+6 \rightarrow 21$					
$3^2 + 7 \rightarrow 16$	20				
$3^{(2+7)} \rightarrow 19683$	۷۷				





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• Examples:								
	copy cell reference	paste cell reference	relative difference	formula being copied	final formula pasted cell			
	C5	D6	add one column add one row	=F4 =\$F\$4 =\$F4	=G5 =\$F\$4 =\$F5			
	C5	D3	add one column subtract 2 rows	=K7*B\$7 =A3+\$B7	=L5*C\$7 =B1+\$B5			
	C5	F11	add 3 columns add 6 rows	f(A1:B5) f(A\$3:A7)	f(D7:E11) f(D\$3:D13)			
	C5	F1	add 3 columns subtract 4 rows	=A3 =Z5	=#REF! =AC1			
-	 f() indicates some function see below =#REF! is an error message = cell reference not valid 23 							

