

AGENDA

Relative Referencing

Absolute Referencing

Naming cells

Naming ranges

Exercise

RELATIVE REFERENCING

- Each cell in Excel has a name in the 'ColumnRow' format.
 - Cell B10 is the cell in Column B / Row 10.
- By default the reference style in a cell is a relative reference.
- That means if you copy that cell to another cell, the references will move accordingly.

	Α	В	С	D
1	Input	100	200	300
2	Formula	1000	2000	=D1*10

ABSOLUTE REFERENCING

With **absolute referencing**, you can fix the reference to a specific column, row or both using the '\$' sign.

Assign absolute cell references in three ways:

- $$A$1 \rightarrow $Column$Row = both the column (A) and row (1) are fixed.$
- \$A1 \rightarrow \$ColumnRow = only the column (A) is fixed.
- A1 \rightarrow Column$Row = only the row (1) is fixed.$
- When in a cell, use **F4** as the shortcut to quickly toggle between the different reference styles.

ABSOLUTE REFERENCING EXAMPLE

Fix column A and row 7

6		Price per unit			
7	# of units sold	10	20	30	
8	100	1,000	2,000	3,000	
9	1,000	10,000	20,000	30,000	
10	10,000	100,000	200,000	=\$A10*D\$7	

Incorrect referencing is used.

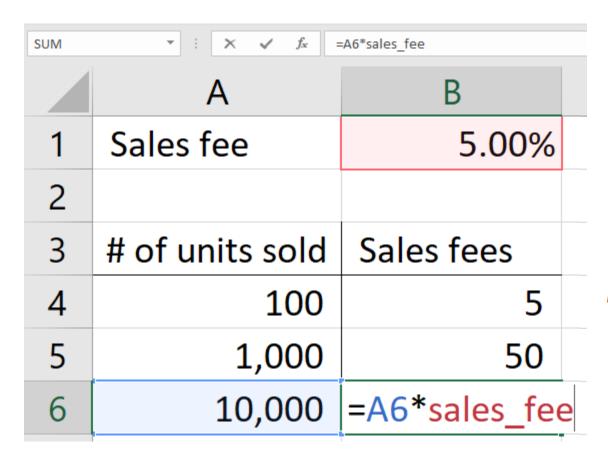
NAMING CELLS



Type a name for the call into the **Name** box and press **Enter** to apply.

sales_fee	: × ✓ f _x 5	5%	
	Α	В	
1	Sales fee	5.00%	
2			
3	# of units sold	Sales fees	
4	100		
5	1,000		
6	10,000		

NAMING CELLS

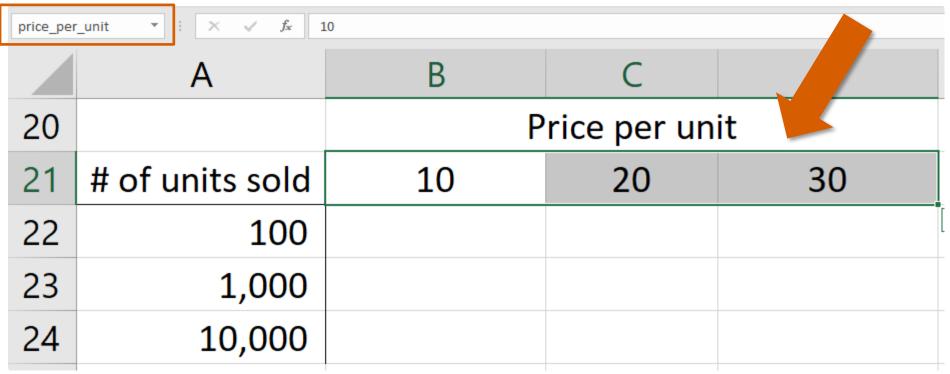


A named cell will automatically be an absolute reference.



NAMING RANGES

B21:D21 = price_per_unit



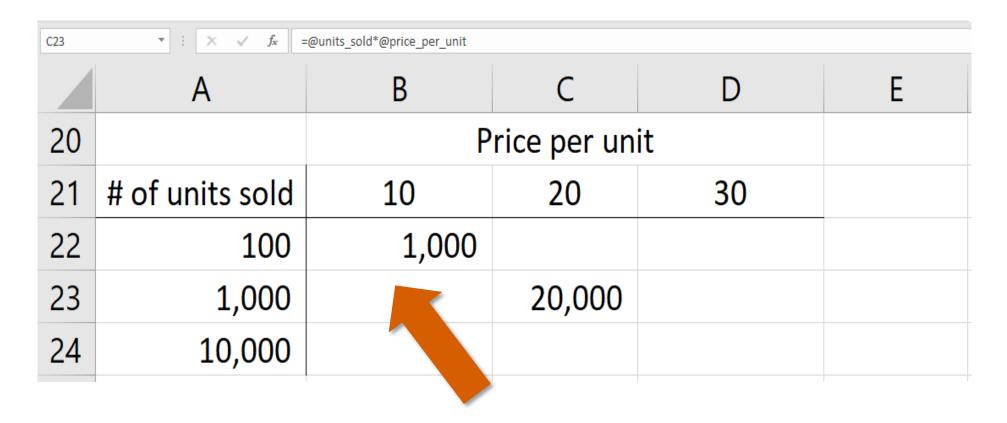


A22:A24 = units_sold

NAMING RANGES

B22	B22 \bullet : \times \checkmark f_{x} =units_sold*price_per_unit					
	Α	В	С	D		
20		Price per unit				
21	# of units sold	10	20	30		
22	100	1,000	2,000	3,000		
23	1,000	10,000	20,000	30,000		
24	10,000	100,000	200,000	300,000		

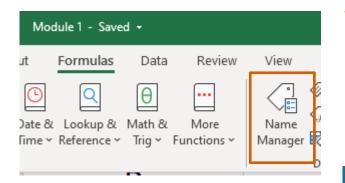
NAMING RANGES

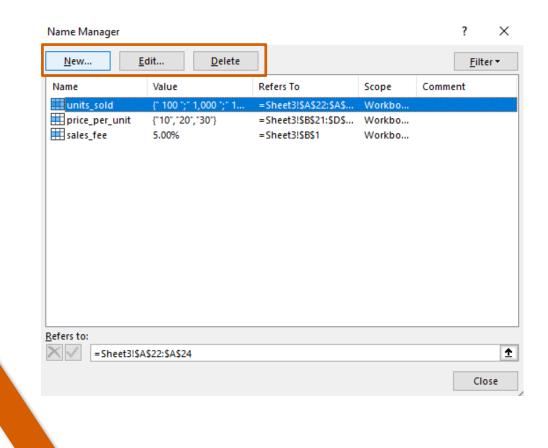


Use the <u>@</u> symbol in front of the reference to only calculate the value in one particular cell.

NAME MANAGER

- Any changes to cell and range references need to be made in the Name Manager
 - You can not override the name by typing the Name box.
- Access the Name Manger via Formulas / Name Manager





Or simply use **CTRL + F3** as a shortcut!











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