

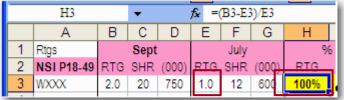


Preventing "#DIV/0!" Messages

Ever see **#DIV/0**! in a cell? This is Excel's way of telling you that a value is being divided by zero.

> In the example to the right, the formula in cell H3 works fine because the value in E3 is not zero.

	~	B	C	D	E	F	G	H		J
1 F	Rtgs	Sept			July			% Difference		
2	NSI P18-49	RTG	SHR	(000)	RTG	SHR	(000)	RTG	SHR	(000)
3 V	WXXX	2.0	20	750	1.0	12	600	100%	67%	25%
4 V	MYYYY	1.0	0	0	0.0	0	0	#DIV/0!	#DIV/0!	#DIV/0!
5 V	WZZZ	0.5	0	0	0.0	0	0	#DIV/0!	#DIV/0!	#DIV/0!
0							_			



But in the next example, **E4** is zero, so the #DIV/0! warning appears.

You can use an "=IF" function to tell Excel to display a message of your choice instead of the #DIV/O! warning.

- An =**IF** function has 3 parts:
- Part 1: The logical test (Is E4=0?)
- Part 2. What to do if the answer to the test is "yes"
- **Part 3**: What to do if the answer to the question is "no"

Translation of =IF(E4=0,"NG",(B4-E4)/E4):

Test: Is the value in E4 0?

- If yes: Display the letters NG in the cell
- If no: Subtract E4 from B4, then divide the result by the value in E4

	H4	✓ fx =IF(E4=0,"NG",(B4-E4)/E4)								
	Α	В	С	D	E	F	G	Н	- I	J
1	Rtgs	Sept			July			% Difference		
2	NSI P18-49	RTG	SHR	(000)	RTG	SHR	(000)	RTG	SHR	(000)
3	WXXX	2.0	20	750	1.0	12	600	100%	67%	25%
4	WYYY	1.0	0	0	0.0	0	0	NG	NG	NG
5	WZZZ	0.5	0	0	0.0	0	0	NG	NG	NG

Note: Instead of "NG" you can display whatever you like. For example: =IF(E4=0,"There's a zero in the formula", (B4-E4)/E4)

fx =IF(E4=0,"NG",(B4-E4)/E4)									
E IF(logical_test, [value_if_true], [value_if_false])									
	July		%						
RTG	SHR	(000)	RTG	SHR	(000)				
1.0	12	600	100%	67%	25%				
0.0	0	0	=IF(E4=						

fx =(B4-E4)/E4

F

July RTG SHR (000)

12

0 🚯

G

600

RTG

100

#DIV/0!

E

0.0