

Excel & Business Math

Video/Class Project #11

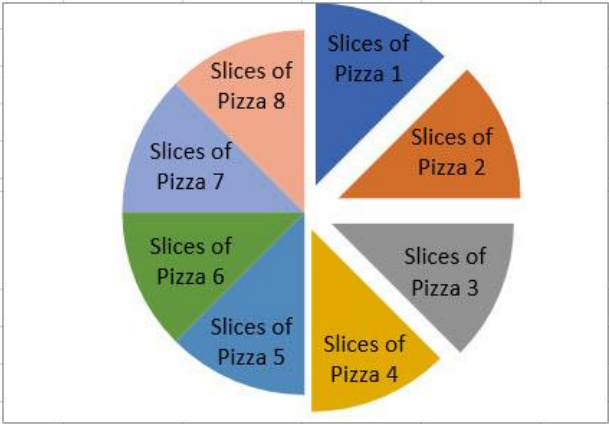
Fractions: Types Of Fractions & Fraction Number Formatting

Topics

- 1) Example 1 From Video:..... 1
- 2) Example 2 From Video:..... 2
- 3) Example 3 From Video:..... 3
- 4) Custom Fraction Number Format Dialog Box:..... 4

1) Example 1 From Video:

	A	B	C	D	E	F	G	H	I	J	K
1	Example 1: Parts of the Whole										
2											
3	If you eat 4 slices and there are 8 total slices, what fraction of the pizza did you eat?										
4	Slices you eat	4	Without the Fraction Number								
5	Total Slices	8	Format, we will see decimals								
6	Fraction	4/8	<== Use Fraction Number								
7			Formatting: "As eighths (4/8)"								
8	If you eat 4 slices and there are 8 total slices, what fraction of the pizza did you eat?										
9											
10	Slices you eat	4									
11	Total Slices	8									
12	Fraction	1/2	<== Use Fraction Number								
13			Formatting: "Up to one digit (1/4)"								
14											
15	** We can see that Fraction Number Formatting automatically reduced the										
16	fraction. We must be careful when it automatically reduces ==> More later										
17	when we learn how to reduce Fractions										
18											
19	"As eighths (4/8)" and "Up to one digit (1/4)" are Built-in Fraction Number										
20	Formats. Sometimes we cannot use the Built-in Fraction Number Formats										



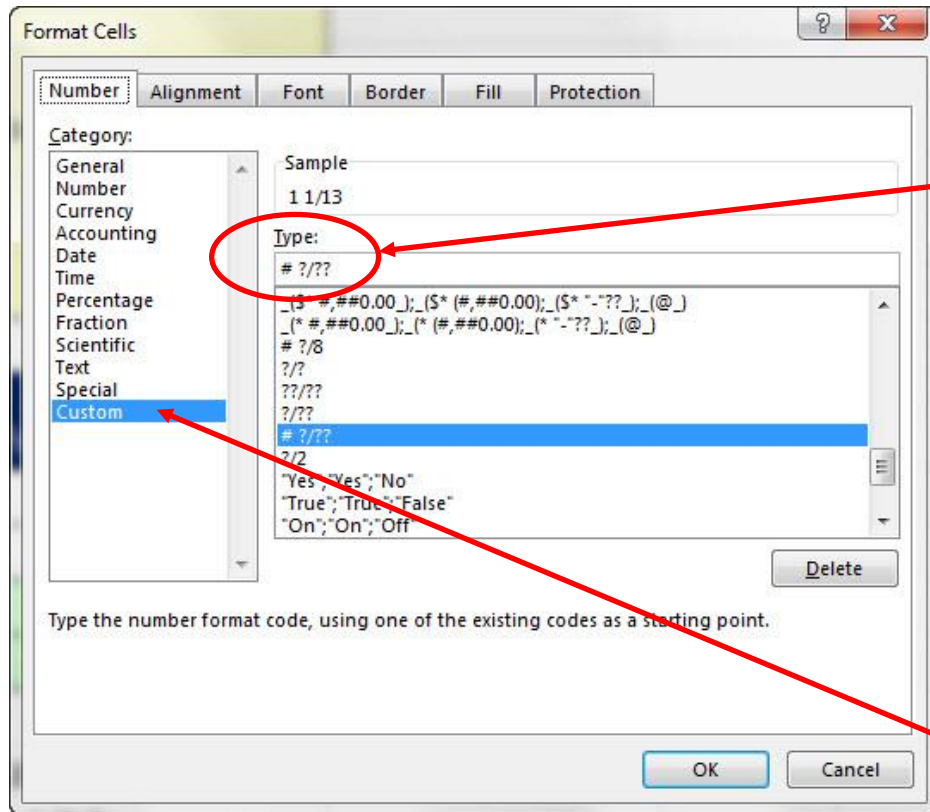
2) Example 2 From Video:

	A	B	C	D	E	F	G	H	I	J	K
1	Example 2: When to hard code numerator and denominator into formula										
2											
3	You are removing a wheel from a bicycle with a 9/16 inch socket wrench.										
4	You want to not this in an Excel Sheet:										
5											
6	Size of Wrench for bolt of wheel	9/16		=9/16	**When putting fraction into a cell like 9/16, type formula like: =9/16						
7											
8	Excel's Golden Rule:										
9	** We don't violate Excel's Golden Rule if the fraction is just a single number like for a measurement										
10	** We would violate Excel's Golden Rule if, like our last example, the numerator and denominator were two separate numbers										
11	that might change (like how many pieces of pizza you ate).										

3) Example 3 From Video:

	A	B	C	D	E	F	G	H
1	Example 3: Custom Fraction Number Formatting to display the fraction the way you want							
2								
3	To display Fractions in Excel, you must use Number Formatting							
4	Ctrl + 1 opens the Format Cells Dialog box.							
5	On the Number Tab, select the Fraction Category and scroll through options							
6	If the built-in Fraction Number Format does not work, use:							
7	On the Number Tab, select the Custom Category, then in the General Textbox use this code:							
8	# means integer (whole number)							
9	? Means a digit in the numerator or denominator							
10	??/?? custom number format will show two digits in the top and bottom							
11								
12	Proper Fraction	Improper Fraction	Mixed Number	Like Fraction	Unlike Fraction			
13	1/2	14/13	1 1/2	1/2	1/2			
14	9/16	2/1	1 1/13	3/2	1/4			
15	1/2	14/13	1 1/2	1/2	1/2			
16	9/16	2/1	1 1/13	3/2	1/4			
17								
18	**When putting a single number into a cell like 9/16, type formula like: =9/16							
19	**When putting a single number into a cell like 1 1/13, type formula like: =1+1/13							
20								
21	Note About Fractions and Date Number Formatting:							
22	Type: 1/2 in cell and the result will be "2-Jan"					Try it:	2-Jan	
23								
24	This is why when you want a fraction, use the formula =1/2, then							
25	Number Format it with ?/?					Try it:	1/2	<<== How is this aligned???
26								By Default, Numbers aligned right
27	Or, if you do not want a number, but only a Text Label, try a "lead							
28	apostrophe", like '1/2 (This forces it to be "Text"					Try it:	1/2	<<== How is this aligned???
29								By Default, Text aligned left
30								By Default, Text aligned left

4) Custom Fraction Number Format Dialog Box:



Code:
= Whole Number Part
? = How many digits you want
displayed in numerator or
denominator

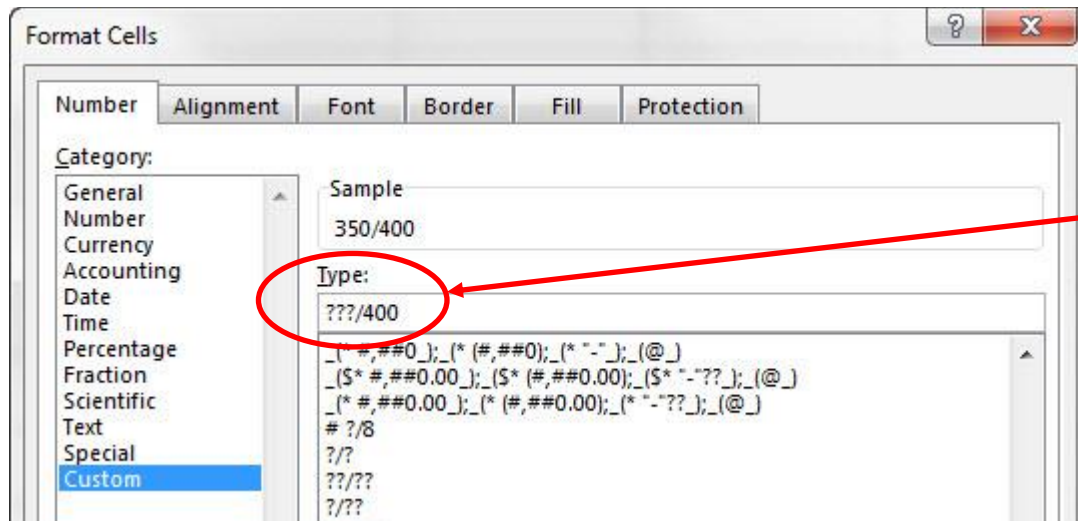
To type out a Custom Fraction
Number Format:
1) Format Cells Dialog Box
2) Number Tab
3) Category = "Custom"

5) Code for Custom Fraction Number Format:

1. Ctrl + 1 opens the Format Cells Dialog box.
 2. On the Number Tab, select the Fraction Category and scroll through options
 3. If the built-in Fraction Number Format does not work, use:
 - i. On the Number Tab, select the Custom Category, then in the General Textbox use this code:
 - # means integer (whole number)
 - ? Means a digit in the numerator or denominator
 - ??/?? custom number format will show two digits in the top and bottom
- **Note:** You can type a number into the denominator when creating your Custom Number Format if that number is not going to change

6) Example 4 From Video:

	A	B	C	D	E	F	G	H	I	J	K	L	M
1		Assignment	Possible Points	Your Score									
2		Test 1	100	80									
3		Test 2	100	75									
4		Test 3	100	100									
5		Test 4	100	95									
6		Total	400	350									
7													
8			Fractional Score	350/400									
9													
10		**Note: You can type a number into the denominator when creating your Custom Number Format if that number is not going to change											
11													
12		This is example #4 for this video											



Custom Number Format
used in Example #4: