

How can I convert a percentage to a ratio in Excel?

Authored by
stats writer

June 22, 2024

RECOMMENDED CITATION

stats writer (2024). *How can I convert a percentage to a ratio in Excel?*. PSYCHOLOGICAL SCALES. Retrieved from <https://scales.arabpsychology.com/?p=146813>

Converting a percentage to a ratio in Excel is a simple process that involves using a formula or a built-in function. To convert a percentage to a ratio, you can use the formula: $\text{ratio} = \text{percentage}/100$. Alternatively, you can use the built-in function "RATIO" to directly convert a percentage to a ratio. This function takes the percentage as its argument and returns the corresponding ratio. By converting a percentage to a ratio, you can easily compare and analyze data in a more standardized format in Excel.

Convert Percentage to Ratio in Excel

To convert a percentage to a ratio, you can use the following steps:

1. Remove percentage symbol
2. Divide value by 100
3. Convert Fraction to Reduced Fraction

For example, suppose you would like to convert 22% to a ratio.

First, convert 22% to 22.

Then, convert 22 to 22/100.

Lastly, write the reduced fraction as 11/50.

You can use the following formula in Excel to convert a percentage to a ratio:

=SUBSTITUTE(TEXT(A2,"?/??"),"/",":")

This particular formula converts the percentage in cell A2 to a ratio.

For example, if cell A2 contains

The following example shows how to use this formula in practice.

Example: Convert Percentage to Ratio in Excel

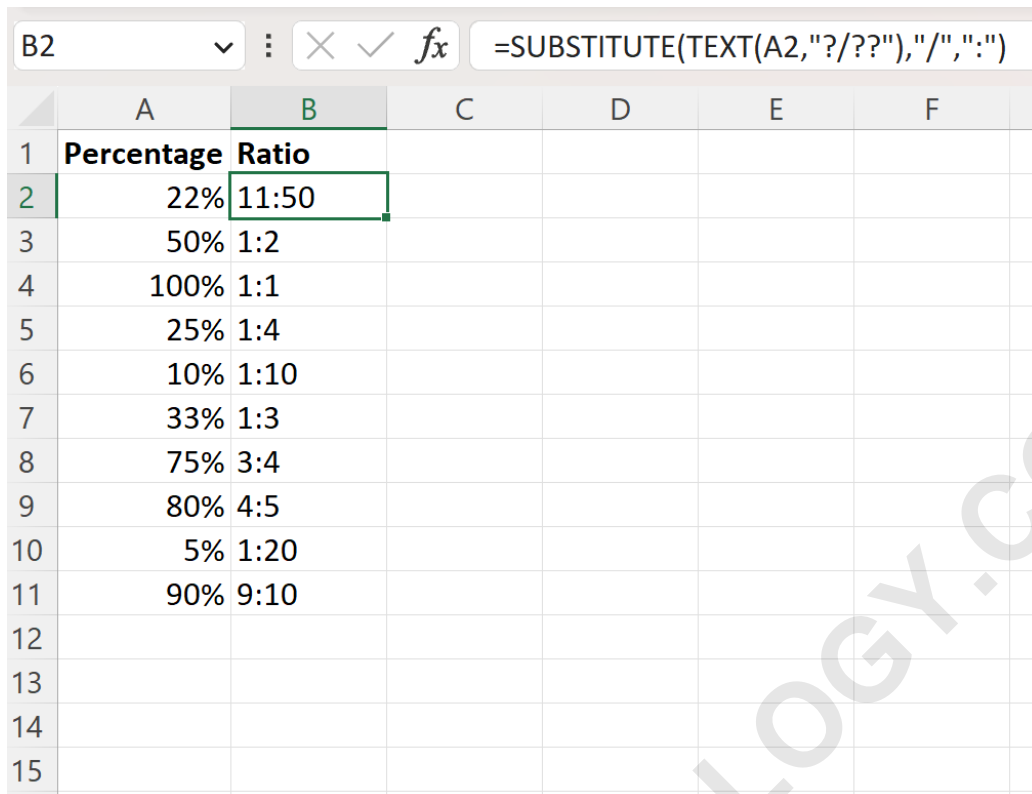
Suppose we have the following column of percentages in Excel:

	A	B	C	D	E
1	Percentage				
2	22%				
3	50%				
4	100%				
5	25%				
6	10%				
7	33%				
8	75%				
9	80%				
10	5%				
11	90%				
12					
13					
14					
15					
16					

Suppose we would like to convert each percentage to a ratio.

=SUBSTITUTE(TEXT(A2,"?/?"),"/",":")

We can then click and drag this formula down to each remaining cell in column B:



The screenshot shows an Excel spreadsheet with the following data:

	A	B	C	D	E	F
1	Percentage	Ratio				
2	22%	11:50				
3	50%	1:2				
4	100%	1:1				
5	25%	1:4				
6	10%	1:10				
7	33%	1:3				
8	75%	3:4				
9	80%	4:5				
10	5%	1:20				
11	90%	9:10				
12						
13						
14						
15						

The formula bar at the top shows the formula: `=SUBSTITUTE(TEXT(A2,"?/??"),"/"," :")`

Column B displays each percentage in column A as a ratio.

For example:

22% is equivalent to a ratio of 11:50. 50% is equivalent to a ratio of 1:2. 100% is equivalent to a ratio of 1:1. 25% is equivalent to a ratio of 1:4.

And so on.

The following tutorials explain how to perform other

common tasks in Excel:

ARABPSYCHOLOGY.COM