

Fractions, Decimals, and Percents

We can use a spreadsheet to calculate equivalent fractions, decimals and percents. After we set up the spreadsheet, you can input different fractions and determine their equivalent decimal and percent.

Create a spreadsheet with four columns. Label column A numerator, column B denominator, column C decimal, and column D percent.

Use column A and B to enter the numerator and denominator of each fraction you want to change into a decimal and percent.

To express a fraction as a decimal, divide the numerator by the denominator. Set the formula for column C2 as $(=A2/B2)$ Set the formula in C2 and then copy and paste the formula in C3, C4, and C5.

To express a decimal as a percent, multiply by 100. Set the formula for column D2 as $(C2*100)$ Set the formula in D2 and then copy and paste the formula in D3, D4, and D5.

After you have created the spreadsheet to calculate the values, you can change the numbers in column A and column B and it will recalculate the decimal and percent.

Here is an example of the spreadsheet.

A	B	C	D
numerator	denominator	decimal	percent
1	2	0.5	50
1	5	0.2	20
2	3	0.666666667	66.66666667
1	4	0.25	25
2	5	0.4	40

Use a spreadsheet to express each fraction as a percent.

1. $\frac{1}{5}$

2. $\frac{1}{8}$

3. $\frac{3}{4}$

4. $\frac{5}{8}$

5. $\frac{9}{10}$

6. $\frac{4}{25}$

7. $\frac{14}{100}$

8. $\frac{27}{50}$

9. $\frac{9}{20}$

10. $\frac{3}{5}$

11. $\frac{13}{50}$

12. $\frac{8}{25}$

13. Express 0.15 as a fraction in simplest form.

14. Express 34% as a fraction in simplest form.

15. Suppose you want to make a spreadsheet with two columns to calculate the decimal form of a percent. Column A is a percent. You want column B to be the decimal. What formula would you use for column B?

16. Suppose you want to make a spreadsheet that shows only the numerator and denominator of a fraction and the fraction expressed as a percent. Column A is the numerator of the fraction, column B is the denominator, and column C is the percent. What formula would you use for column C?