



Revision Guides

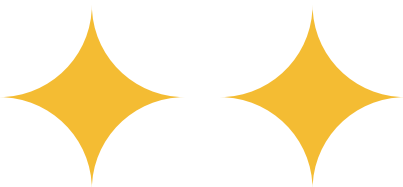
Subtract Fractions

Subtract the **numerators**

Keep the same **denominator**

$$\frac{5}{8} - \frac{2}{8} = \frac{3}{8}$$

Subtracting fractions



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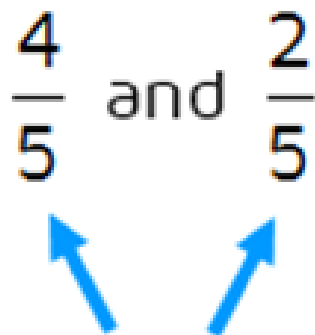
remember

Introduction...

Before we start, let's revise common denominator.

What is a Common Denominator?

The denominator of a fraction is the number on the bottom. When we say that fractions have a common denominator, it means they have the same number on the bottom.

$$\frac{4}{5} \text{ and } \frac{2}{5}$$


Same bottom number

Example...

Let's try to solve some example together -

To subtract two or more fractions that have the same denominators, subtract the numerators and place the resulting difference over the common denominator. Simplify your result, if necessary.

$$\frac{7}{8} - \frac{2}{8} = \frac{7-2}{8} = \frac{5}{8}$$

How do we Subtract Unlike Fractions..

We would follow the steps to subtract unlike fractions:

Find the least common multiple (LCM) of the denominators.

Change the denominator to the LCM by multiplying the numerator and the denominator by the same number.

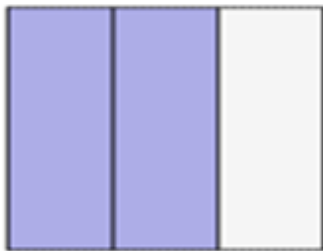
Once the fractions have the same denominators, subtract the numerators of the fractions.

The difference between the numerator and the LCM will be the numerator and the denominator of the answer respectively.

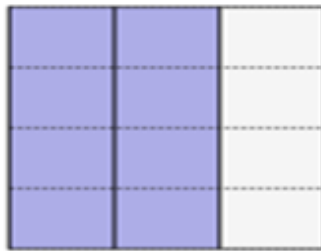
Simplify the fraction, if required.

More Example...

Subtract Unlike Fractions

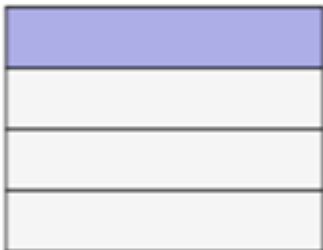


$$\frac{2}{3}$$

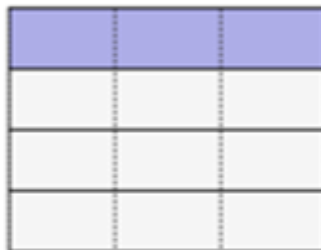


$$= \frac{2 \times 4}{3 \times 4} = \frac{8}{12}$$

$$\begin{aligned} \frac{2}{3} - \frac{1}{4} &= \frac{2 \times 4}{3 \times 4} + \frac{1 \times 3}{4 \times 3} \\ &= \frac{8}{12} - \frac{3}{12} \\ &= \frac{5}{12} \end{aligned}$$



$$\frac{1}{4}$$



$$= \frac{1 \times 3}{4 \times 3} = \frac{3}{12}$$

Things to Remember...

Adding and Subtracting Fractions

Don't forget...

when you add and subtract fractions, the denominators (bottom numbers) **MUST** be the same in order to perform the .

(after you fix the denominators) when your add or subtract, focus only on the top numbers; leave the denominators alone



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