

NUMERACY



Rules of Fractions

An understanding of "arithmetic" rules will allow for the addition and subtraction of fractions.

Hints

WORD BANK

Numerator – the number on the top of the fraction.

Denominator – the number on the bottom of the fraction.

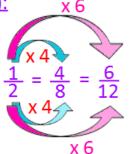
Adding/Subtracting Fractions

Before fractions can be added or subtracted the denominator for each fraction must be made the same. This can be done by:

- 1. Finding the equivalent This can be thought of as the opposite of simplifying fractions. Choose any number, and multiply both top and bottom by that number.
- 2. Simplifying Look for the highest number that divides both the numerator (top) and the denominator (bottom). This is called the highest common factor.

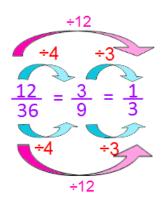
Example 1(Equivalent):

The blue arrows show how we have multiplied by 4 to make an equivalent fraction. The pink arrows show what happens when we multiply by 6.



Example 2 (Simplifying):

12 and 36 both divide by 4 and 3. This is one way of simplifing this fraction. Alternatively, you might spot that the HCF is 12, and use this instead.





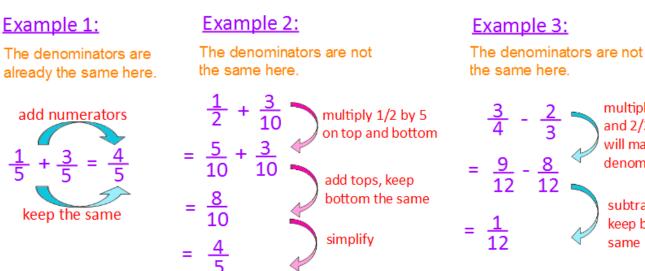
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Examples

To add or subtract fractions we make sure they have a **common denominator**.

To keep the calculation simple, we use the **lowest common denominator**.



multiply 3/4 by 3 and 2/3 by 4. This will make both denominators 12.

> subtract tops, keep bottom the same

Resources

Youtube Video with examples -

https://www.youtube.com/watch?v=tDQipFjAoT8

Fractions Games -

http://www.math-play.com/math-fractions-games.html

Worksheets -

https://www.math-drills.com/fractions.php