

### 2124 ÷ 4

358 x 38

# 45.5 x 3

## 123659 + 45856

96863 - 4528



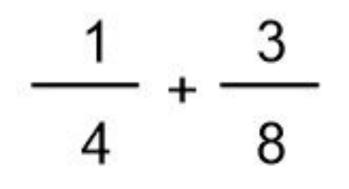
#### $2124 \div 4 = 531$

358 x 38 = 13604

# 45.5 x 3 = 136.5

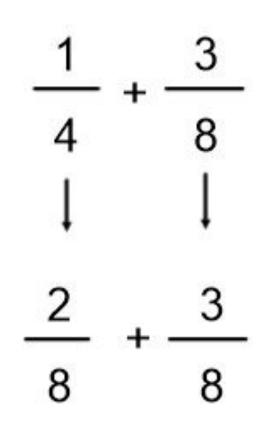
## 123659 + 45856 = 169515 96863 - 4528 = 92335

# Can I add and subtract fractions with different denominators?



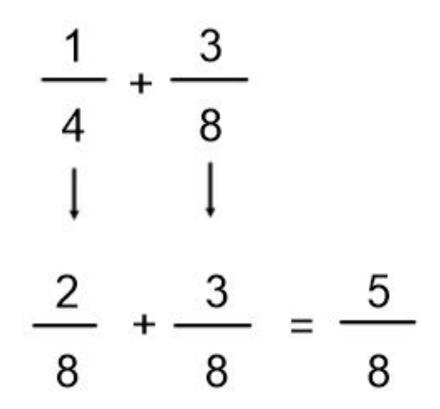
We need to add these two fractions together, but their denominators aren't the same.

Let's look at what we can do to work this out.

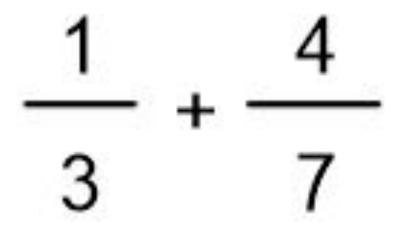


Luckily, 4 and 8 share a common multiple in 8.

To balance out our calculation with the same denominator, we can convert our quarters into eighths by multiplying 1 and 4 by 2, which is how many times 4 goes into 8.



Now we can continue to solve our problem in the method we know for fractions that have the same denominator.



Now we need to add these fractions together.

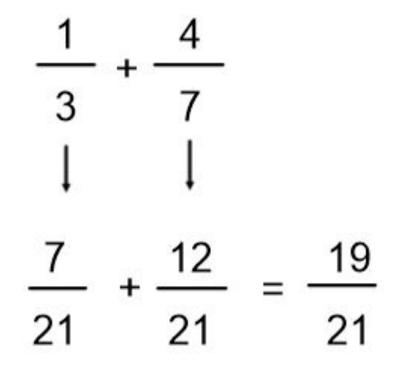
They don't have denominators that allow us to convert our thirds into sevenths, but we can still find a common multiple 3 and 7 share to find our new denominator.

3 and 7 share a common multiple in 21.

To convert  $\frac{1}{3}$  into our new equivalent fraction, we multiply 1 and 3 by 7, as 3 x 7 =21 and 3 is our denominator.

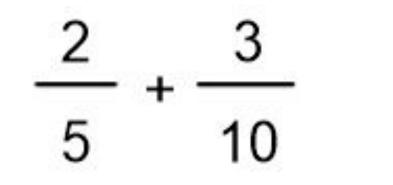
To convert 4/7, we multiply 4 and 7 by 3, as 7 x 3 = 21 and 7 is our denominator.

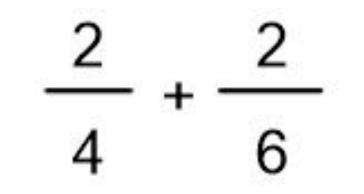
This leaves us with our new addition calculation.

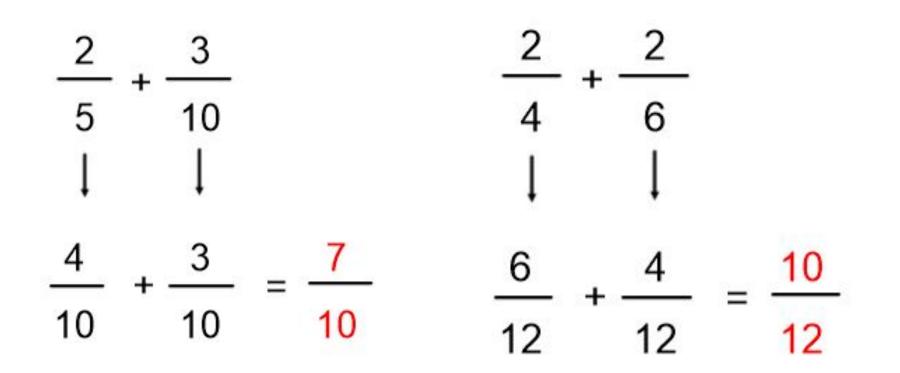


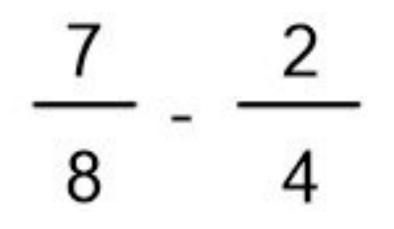
From here, we can add our new fractions together to get our answer.





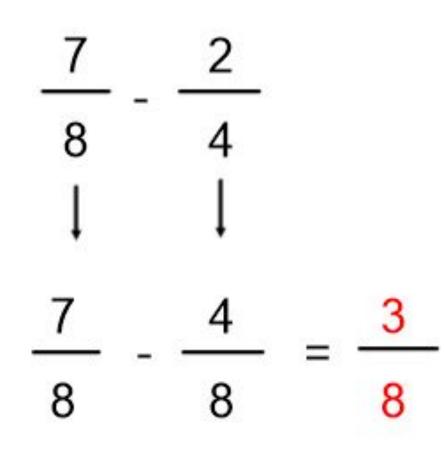






Subtraction works in a similar way when looking at fractions with different denominators.

Let's look at this subtraction as an example.



Just like with addition, with subtraction, we need to find the common multiple that the denominators share and use that as a starting point.