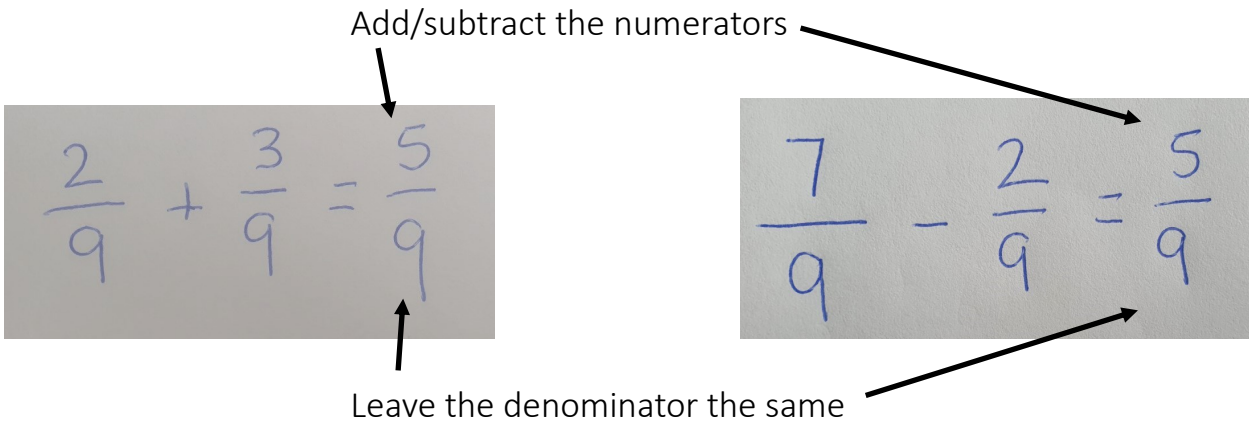
Calculation Policy: Fractions

Adding & Subtracting

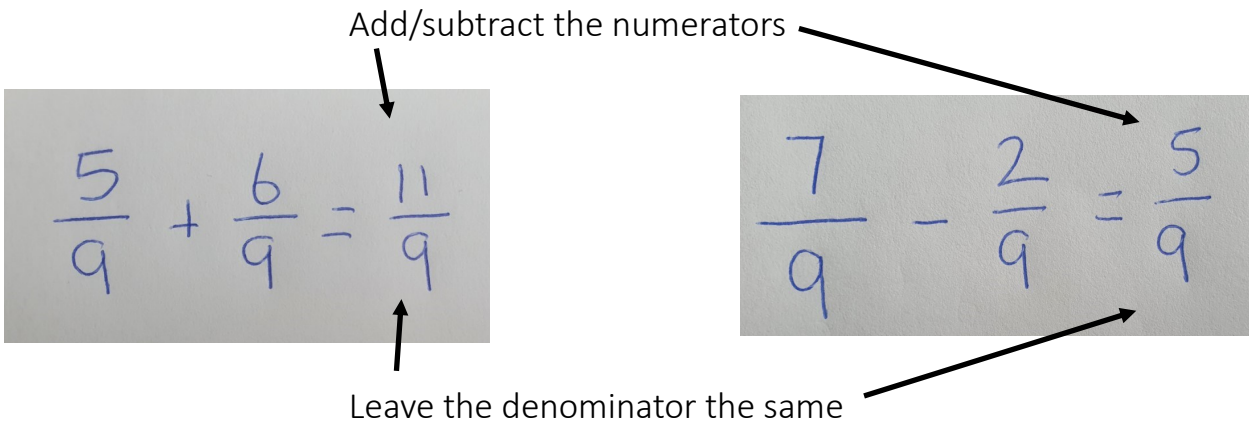
Year 3

* Add and subtract fractions with the same denominator within one whole [for example, 5/7 + 1/7 = 6/7] *(Year 3 - Fractions)*



Year 4

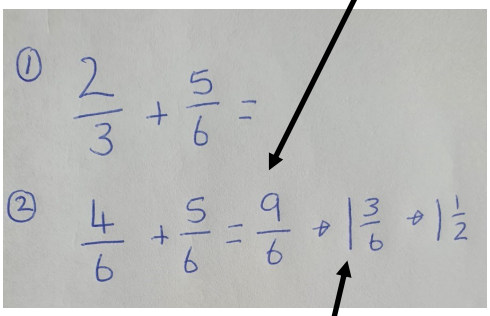
* Add and subtract fractions with the same denominator *(Year 4 - Fractions)*

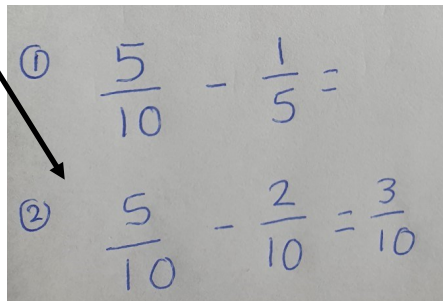


Year 5

* Add and subtract fractions with the same denominator and denominators that are multiples of the same number *(Year 5 - Fractions)*

Find a common multiple and convert the fractions (remember you must do the same to the numerator and denominator)





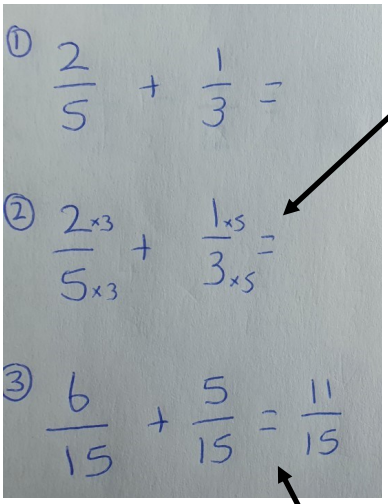
Fractions should not be improper - convert and simplify where necessary

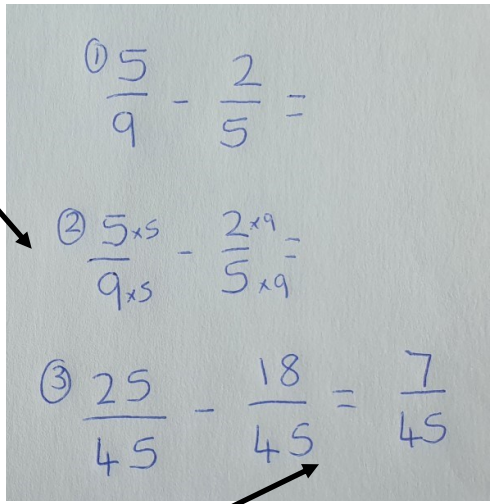
Year 6

* Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions *(Year 6 - Fractions)*

Proper and Improper Fractions

Convert the fractions to ensure they have the same denominator (identify common multiples or cross multiply)

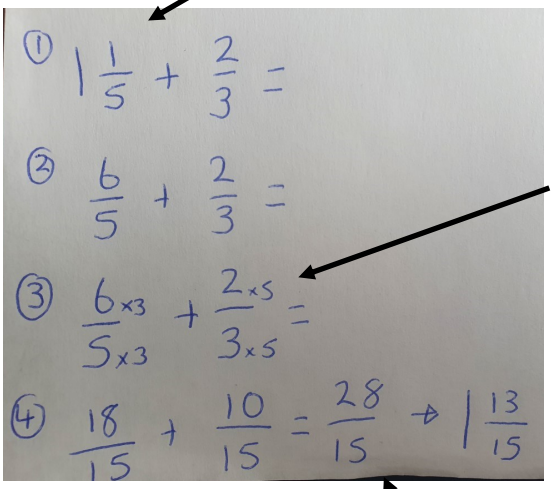




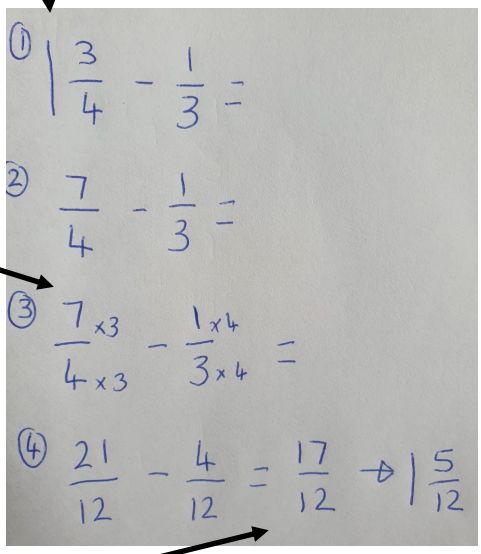
Add/subtract the numerator and leave the denominator the same

Mixed Numbers

Convert the mixed number to improper fractions



Convert the fractions to ensure they have the same denominator (identify common multiples or cross multiply)



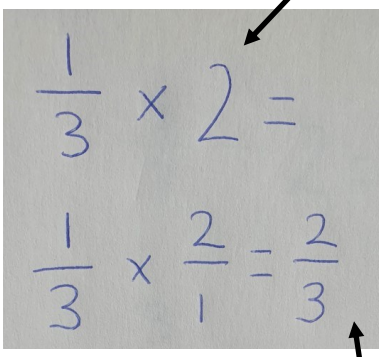
Add/subtract the numerator and leave the denominator the same - answers must not be improper

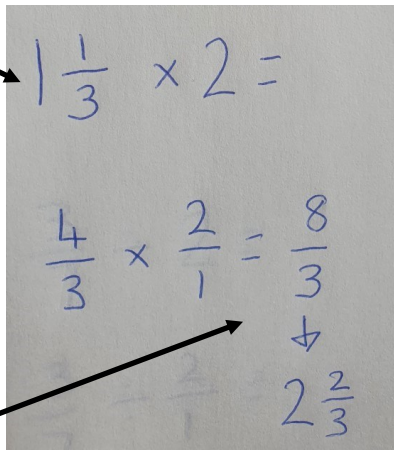
Multiplying

Year 5

* Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams *(Year 5 - Fractions)*

Convert whole/mixed numbers to improper fractions

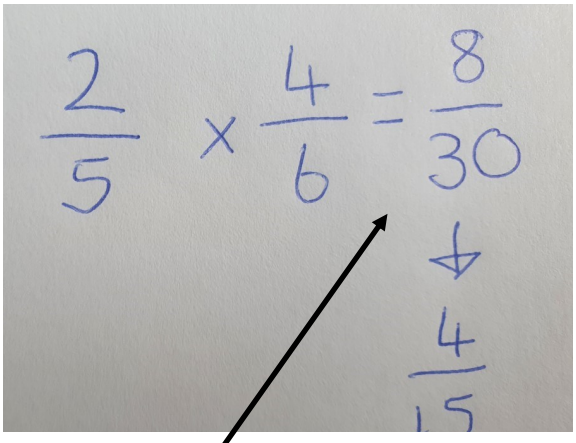




Multiply the numerators and then the denominators

Year 6

* Multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, 1/4 × 1/2 = 1/8] *(Year 6 - Fractions)*

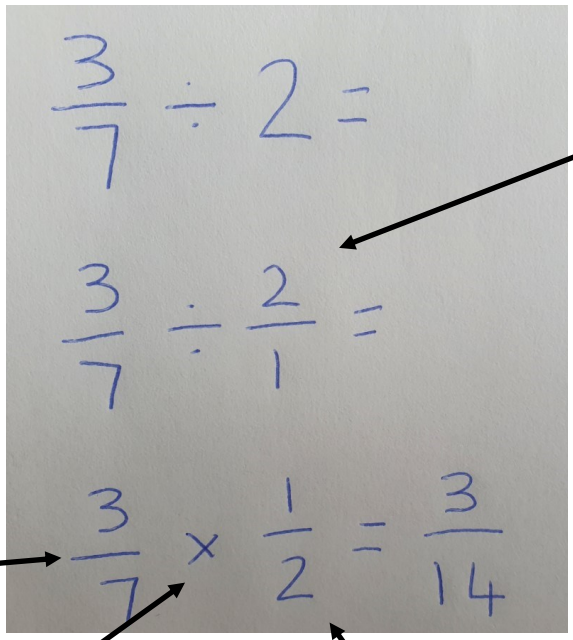


Multiply the numerators and then the denominators. Simplify where necessary

Dividing

Year 6

* Divide proper fractions by whole numbers [for example, 3 1 ÷ 2 = 6 1] *(Year 6 - Fractions)*



Convert whole numbers to fractions

Keep the first fraction

Change the divide to a multiply

Flip the second fraction