Section 4 & 5 —Adding and Subtracting Fractions (2 weeks)









$$\frac{1}{4} + \frac{3}{8} = \frac{2}{8} + \frac{3}{8} = \frac{5}{8}$$

$$\frac{5}{6} - \frac{2}{3} = \frac{5}{6} - \frac{4}{6} = \frac{1}{6}$$

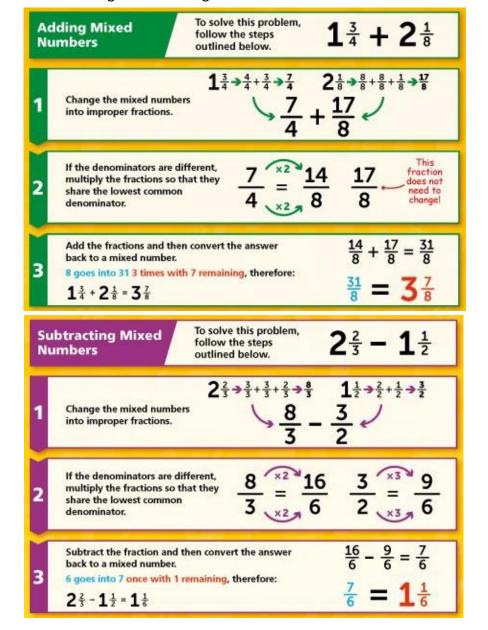


To add or subtract fractions with denominators that are multiples of the same number, we must change one fraction to have the same denominator.

"If adding or subtracting is your aim, the bottom numbers must be the same. Change the bottom using multiply or divide, but the same to the top must be applied. And don't forget to simplify, before it's time to say goodbye."

Section 6 — Adding and Subtracting Mixed Numbers

When adding and subtracting mixed numbers, first change the mixed numbers to improper fractions before adding or subtracting as normal. Remember to convert the answer back to a mixed number.

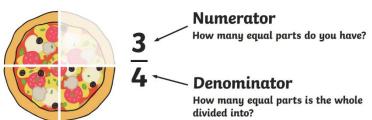


Try these methods with some of your own examples.

Show your workings to ensure this knowledge is secure.

Section 1—Fractions and Equivalent Fractions

A fraction is a number that expresses equal parts of a whole amount.

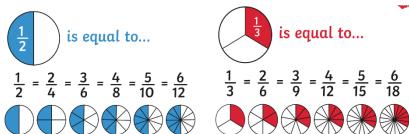


Unit fractions are any fraction whose numerator is 1.

$$\frac{1}{4}$$
 $\frac{1}{2}$ $\frac{1}{4}$ $\frac{1}{16}$

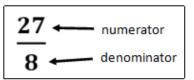
Equivalent fractions are fractions

which have the same value but look different.



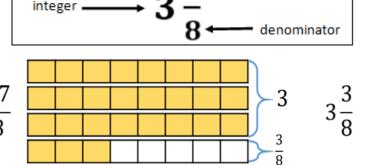
Section 2—Improper Fractions and Mixed Numbers

An **improper fraction** is where the numerator is bigger than the denominator.



A **mixed number** is a number consisting of an integer (whole number) and a proper fraction

We can convert improper fractions into mixed numbers (and vice versa).



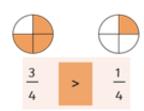
Section 3—Comparing and Ordering fractions

Comparing To look at two or more numbers to decide which is greater (>), lesser (<) or if they are equal (=) Ordering Putting things in the correct place following a rule e.g. Order from smallest to largest



If the fractions have the same denominator...

Then you just compare the numerators.



If the fractions have different denominators...

numerator

- 1. You need to find a common denominator.
- 2. Then multiply the numerator and denominator by the same number.
- 3. Then compare the fractions once the denominators are the same.