

Maths Friday

First let's recap adding and subtracting fractions:

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

$$\frac{12}{15} - \frac{9}{15} = \frac{3}{15}$$

The subtraction problem shows the fraction $\frac{9}{15}$ being subtracted from $\frac{12}{15}$. Red handwritten annotations include a bracket under the 9 in the numerator of the second fraction, a bracket under the 12 in the numerator of the first fraction, and a red '3' written below the 15 in the denominator of the second fraction, indicating that 9 is 3 times 3.

Adding and subtracting mixed numbers

If the denominators are the same - you can just add/
subtract the whole numbers, and then the fractions.

$$4\frac{6}{8} + 2\frac{1}{8} = 6\frac{7}{8}$$

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

If you then end up with an improper fraction as the answer, you need to convert to a mixed number, e.g.

$$2\frac{6}{8} + 1\frac{5}{8} = 3\frac{11}{8} = 4\frac{3}{8}$$

$$3\frac{6}{9} + 2\frac{7}{9} = 5\frac{13}{9} = 6\frac{4}{9}$$

HOT: What if they have different denominators?

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

Handwritten work for $1\frac{1}{2}$ conversion: $1\frac{1}{2} = \frac{2}{2} \times \frac{3}{3} = \frac{3}{2}$

$$4\frac{6}{8} + 2\frac{2}{4} = 6\frac{10}{8} = 7\frac{2}{8}$$

Handwritten work for $2\frac{2}{4}$ conversion: $2\frac{2}{4} = \frac{4}{4} \times \frac{2}{2} = \frac{8}{4}$

Still add/
subtract the
whole numbers.

~~Then you need
to convert the
fraction to have
same
denominators
before adding
subtracting~~

All on same sheet on the website - Maths Friday.

Mild - adding fractions, no need to convert answer to mixed number.

Spicy - adding fractions, some converting of answer to mixed number.

Hot - different denominators - convert to same denominators before adding/subtracting!