Maths Friday

First let's recap adding and subtracting fractions:

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

$$\frac{12}{15} - \frac{3}{5} \xrightarrow{\times 3} \frac{9}{15} = \frac{3}{15}$$

Adding and subtracting mixed numbers

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

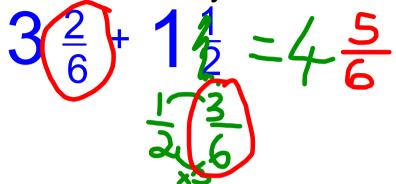$$4\frac{6}{8} + 2\frac{1}{8} = 6\frac{7}{8}$$

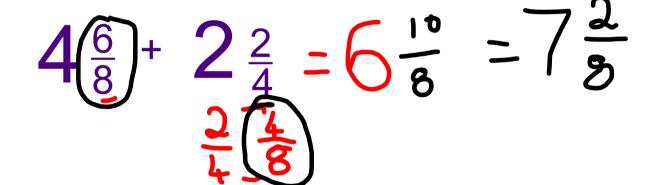$$5\frac{2}{6} - 3\frac{1}{6} = 2\frac{1}{6}$$

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?

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

$$\frac{1}{2} \times \frac{3}{6} \quad \times 3$$

Still add/subtract the whole numbers.

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

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

$$\frac{2}{4} = \frac{4}{8}$$

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!