Lesson 2 Week 5

Can I understand addition and subtraction with the same denominator?

Fast Five

$\frac{8}{5}$ as a mixed number

19 x 24 =

$1\frac{3}{4}$

56 X 100 =

6454 – 3456 =

Fast Five Answers

$\frac{8}{5}$ as a mixed number = $1\frac{3}{5}$

19 x 24 = 456

$1\frac{3}{4}$ *as an* improper fraction = $\frac{7}{4}$

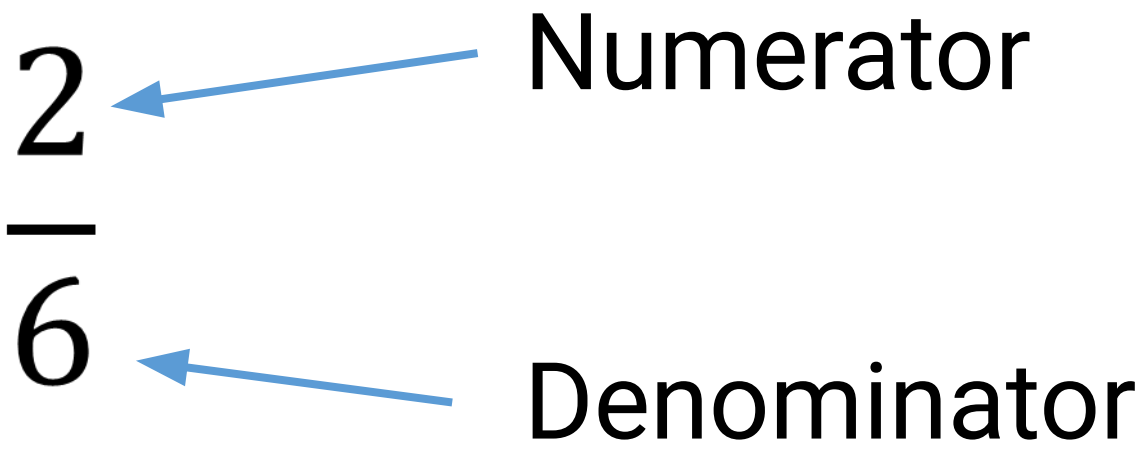
56 X 100 =

5600

6454 – 3456 = 2998

Adding or subtracting fractions

We can only add or subtract fractions when they have the same denominators.
If they are not the same, then we cannot do either function.
If they are the same we simply have to add/subtract the numerators.



Example

$$\frac{2}{6} + \frac{1}{6} =$$

Do these fractions have the same denominator? Yes, so the sum can be done straight away.

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

The numerators are added

The denominators remain the same

Example

$$\frac{2}{8} + \frac{3}{8} =$$

Do they have the same denominator? Yes, so the sum can be done straight away.

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

Numerators are added

Denominators stay the same

Have a go

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

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

Numerators are added

Denominator remains the same

Subtraction – the method remains the same

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

Numerators are subtracted

Denominator remains the same

Have a go

$$\frac{6}{7} - \frac{3}{7} =$$

Answer

$$\frac{6}{7} - \frac{3}{7} = \frac{6-3}{7} = \frac{3}{7}$$

Subtract the numerators

Denominator remains the same

Try these

$$\frac{4}{6} + \frac{1}{6} =$$

$$\frac{4}{6} - \frac{1}{6} =$$

Answers

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

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