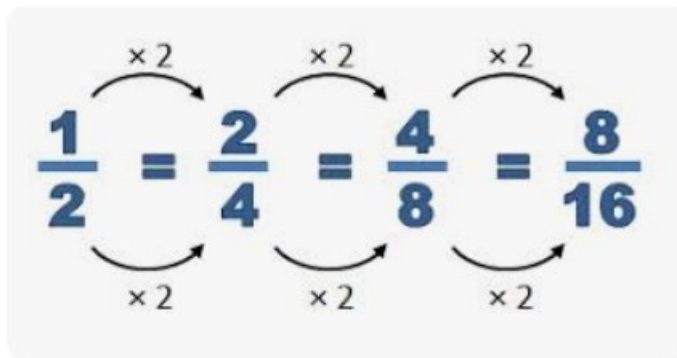By the end of this half term, children should know the following facts. The aim is for them to recall these facts **with speed and accuracy:**

I can find equivalent fractions.

Children should be able to use their times table facts to identify equivalent fractions.

See example below:

You can create equivalent fractions by multiplying the numerator and denominator by the same number (any whole number integer).

$$\overset{\times 2}{\frac{1}{2}} = \overset{\times 2}{\frac{2}{4}} = \overset{\times 2}{\frac{4}{8}} = \overset{\times 2}{\frac{8}{16}}$$

$\times 2 \quad \times 2 \quad \times 2$

Key vocabulary

I know _____ is equivalent to _____ because ...

What is 8 multiplied by 6?

What is 7 times 4?

What is 81 divided by 9?

What is the product of 5 and 7?

What can this look like?

Concrete:

Pictorial:

$$\frac{1}{4} = \frac{\square}{8}$$

Abstract:

$$\frac{6}{12} = \frac{\square}{6}$$

c) $\frac{5}{6} = \frac{\square}{12}$

$$\frac{\square}{6} = \frac{2}{12}$$

d) $\frac{12}{12} = \frac{\square}{6}$

Top tips

* The secret to success is practising **little and often**. Use time wisely. Can you practise this KIRF whilst walking to school or during a car journey? You do not need to practise all aspects of the KIRF all at once; perhaps you could have a fact of the day, or a few facts per week to practise?

Key questions -

* How do you know _____ is equivalent to _____?

* What do you notice about the numerators and denominators of the fractions that are equivalent to 1/2, 1/3, 1/4.....?

Things to try

Give your child a simple fraction (unit-fraction like 1/4 or a non-unit fraction like 2/5). Choose a number to multiply by (e.g. 5) and ask your child to create as many equivalent fractions as they can by repeatedly multiplying the numerator and denominator by 5. Ask your child to write their list down to ensure they calculate accurately. E.g. 1/4 = 5/20 = 25/100 = 125/500.

Play games - Make some cards with pairs of equivalent fractions and decimals. Use these to play the memory game or snap. Or make your own dominoes with fractions on one side and decimals on the other.

Websites

https://www.iknowit.com/lessons/e-equivalent-fractions.html
https://www.bbc.co.uk/bitesize/topics/zhdwxnb/articles/zbqkvwx