Grade 6 **13th January 2021**

Mathematics

Equivalent Fractions

Equivalent Fractions are fractions that are the **same size**.

To change a fraction to an equivalent fraction in **higher terms….**
multiply the numerator and the denominator by the same number

$\frac{3}{4} = \frac{?}{8}$ think 4 X 2 = 8

So multiply the numerator and denominator by 2

$\frac{3 \times 2}{4 \times 2} = \frac{6}{8}$

You need to use **equivalent fractions** or fractions that have the same value to add or subtract fractions.

Let' s make some equivalent fractions

$\frac{5}{8} = \frac{5\times2}{8\times2} = \frac{10}{16}$ $\frac{3}{4} = \frac{4\times3}{4\times4} = \frac{12}{16}$

You can also use LOWEST COMMON DENOMINATOR (LCD) to write equivalent fractions

Use the LCD to write equivalent fractions for $\frac{1}{2}$ and $\frac{2}{5}$.

List several multiples for each denominator.	Find the LCD. It is the smallest number that appears on both lists.	Write equivalent fractions.
Multiples of 2:		$\frac{1}{2} = \frac{1\times5}{2\times5} = \frac{5}{10}$
2 4 6 8 10 12	The LCD of $\frac{1}{2}$ and $\frac{2}{5}$ is 10.	$\frac{2}{5} = \frac{2\times2}{5\times2} = \frac{4}{10}$
Multiples of 5:		
5 10 15 20 25		

Let' s write some equivalent fractions using LCD

$\frac{5}{8} = \frac{5\times2}{8\times2} = \frac{10}{16}$ $\frac{3}{4} = \frac{4\times3}{4\times4} = \frac{12}{16}$

$\frac{2}{5} = \frac{?}{15}$

$\frac{3}{9} = \frac{6}{?}$