## Equivalent Fractions Part 2

Think back to the patterns we saw yesterday. Let's look at one half or 1/2.

$$1 = 2 = 3 = 4 = 6 = 8 = 16 = 32 = 64 = 20 = 50 = 100$$
 $2 = 4 = 6 = 8 = 16 = 32 = 64 = 20 = 50 = 100$ 

If I start with 2/4 and I need to make an equivalent out of twelfths....

Here, I was given the denominator and not the numerator. I have looked at the relationship between the two denominators to work out what I need to do to my numerator.

I know that 4 goes into 12, 3 times  $(4 \times 3 = 12)$ , so I can multiply the top and bottom by 3

$$2(x3) = 6$$
  
 $4(x3) = 12$ 

If I wanted to find the equivalent of 5/6 but I had only been given the numerator (10) then I use the relationship between the two numerators to work out what to do with my denominator. So I know 5 goes into 10, 2 times.  $5 \times 2 = 10$ . So I need to also multiply the bottom by 2.

$$5(x2) = 10$$

$$6(x2) = 12$$

The same must be true in reverse. To find the equivalent fraction of 8/10 into fifths (5) I must divide!

$$8 = ?$$
 I know  $10 \div 2 = 5$  so I need to do the same to  $8 \div 2 = 4$  10 5 the numerator.  $10 \div 2 = 5$ 

TOP TIP: WHATEVER YOU DO TO THE TOP (NUMERATOR), YOU MUST ALSO DO TO THE BOTTOM (DENOMINATOR)!

## Choose one of the tasks...

Copy and complete.

- $1 \frac{1}{2} = \frac{1}{6} \qquad 9 \frac{2}{6} = \frac{4}{6}$
- $\frac{3}{4} = \frac{1}{12}$   $\frac{1}{3} = \frac{2}{1}$
- $\frac{3}{10} = \frac{1}{100}$   $\frac{3}{4} = \frac{6}{1}$
- **5**  $\frac{3}{6} = \frac{1}{12}$  **13**  $\frac{4}{5} = \frac{8}{12}$

Write the odd one out in each set of fractions.

- $10\frac{4}{12} \frac{3}{8} \frac{2}{6} \frac{3}{9}$
- $\frac{5}{10} \frac{6}{12} \frac{2}{5} \frac{3}{6}$
- $\frac{9}{12} \quad \frac{8}{12} \quad \frac{4}{6} \quad \frac{6}{9}$

Copy and complete.

- $\frac{5}{8} = \frac{25}{100} = \frac{4}{4}$
- $2\frac{3}{4} = \frac{10}{20}$   $0\frac{10}{15} = \frac{10}{3}$
- $3\frac{2}{7} = \frac{1}{14}$   $0\frac{12}{20} = \frac{1}{5}$
- $\frac{4}{10} = \frac{7}{100}$   $\frac{8}{16} = \frac{7}{2}$
- 6  $\frac{1}{4} = \frac{1}{8}$  6  $\frac{3}{5} = \frac{30}{10}$  6  $\frac{5}{25} = \frac{1}{10}$
- - **8**  $\frac{4}{5} = \frac{80}{10}$  **6**  $\frac{45}{50} = \frac{9}{10}$

Write the odd one out in each set of fractions.

- $\bigcirc \frac{5}{20} \quad \frac{4}{10} \quad \frac{2}{8} \quad \frac{25}{100}$
- $\frac{80}{100}$   $\frac{20}{24}$   $\frac{12}{15}$   $\frac{16}{20}$
- $\bigcirc \frac{6}{60} \quad \frac{3}{18} \quad \frac{2}{12} \quad \frac{5}{30}$
- $20 \frac{12}{16} \quad \frac{15}{20} \quad \frac{8}{12} \quad \frac{75}{100}$