## Equivalent Fractions Part 2

Think back to the patterns we saw yesterday. Let's look at one half or $1 / 2$.
$\frac{1}{2}=\frac{2}{4}=\frac{3}{6}=\frac{4}{8}=\frac{6}{12}=\frac{8}{16}=\frac{16}{32}=\frac{32}{64}=\frac{64}{128}=\frac{20}{40}=\frac{50}{100}=\frac{100}{200}$

If I start with 2/4 and I need to make an equivalent out of twelfths....
$2=? \quad$ Here, I was given the denominator and not the numerator. I have
$4 \quad 12$ 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
$2(x 3)=6$
$4(x 3)=12$

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.
$5=10$
6
$5(x 2)=10$
$6(x 2)=12$

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

$$
\begin{array}{ll}
\frac{8}{8}=? \\
10 & I \text { know } 10 \div 2=5 \text { so I need to do the same to } \\
& \frac{8}{5}(\div 2)=4 \\
10(\div 2)=5
\end{array}
$$

Choose one of the tasks...


Write the odd one out in each set of fractions.
(17) $\frac{4}{12} \quad \frac{3}{8} \quad \frac{2}{6} \quad \frac{3}{9}$
(18) $\frac{5}{10} \quad \frac{6}{12} \quad \frac{2}{5} \quad \frac{3}{6}$
(19) $\frac{8}{12} \quad \frac{75}{100} \quad \frac{9}{12} \quad \frac{6}{8}$
(20) $\frac{9}{12} \quad \frac{8}{12} \quad \frac{4}{6} \quad \frac{6}{9}$

## $C$

Copy and complete.
(1) $\frac{5}{8}=\frac{\square}{16}$
(9) $\frac{25}{100}=\frac{\square}{4}$
(2) $\frac{3}{4}=\frac{\square}{20}$
(10) $\frac{10}{15}=\frac{\square}{3}$
(3) $\frac{2}{7}=\frac{\square}{14}$
(11) $\frac{12}{20}=\frac{\square}{5}$
(4) $\frac{7}{10}=\frac{\square}{100}$
(12) $\frac{8}{16}=\frac{\square}{2}$
(5) $\frac{4}{9}=\frac{8}{\square}$
(13) $\frac{55}{100}=\frac{11}{\square}$
(6) $\frac{3}{5}=\frac{30}{\square}$
(14) $\frac{5}{25}=\frac{1}{\square}$
(7) $\frac{5}{8}=\frac{10}{\square}$
(15) $\frac{14}{18}=\frac{7}{\square}$
(8) $\frac{4}{5}=\frac{80}{\square}$
(16) $\frac{45}{50}=\frac{9}{\square}$

Write the odd one out in each set of fractions.
(17) $\frac{5}{20} \quad \frac{4}{10} \quad \frac{2}{8} \quad \frac{25}{100}$
(18) $\frac{80}{100} \quad \frac{20}{24} \quad \frac{12}{15} \quad \frac{16}{20}$
(19) $\frac{6}{60} \quad \frac{3}{18} \quad \frac{2}{12} \quad \frac{5}{30}$
(20) $\frac{12}{16} \quad \frac{15}{20} \quad \frac{8}{12} \quad \frac{75}{100}$

