Learning Objectives:
Understand what equivalent fractions are
Be able to simplify fractions


Equivalent Fractions

$$
\begin{aligned}
& \frac{1}{2}=\frac{2}{4}=\frac{4}{8} \\
& \begin{array}{l}
\frac{8}{16} \div 2=\frac{4}{8} \quad \frac{\text { Top }}{\text { Boron ! }} \text { ! } 14
\end{array} \\
& \text { even }=\frac{1}{2} \\
& \frac{4}{8} \div 2=\frac{2}{4} \div 2=\frac{1}{2}
\end{aligned}
$$

$$
\begin{aligned}
& \frac{8}{16} \div 4=\frac{2}{4} \div 2=\frac{1}{2} \\
& \frac{8}{16} \div 8=\frac{1}{2}
\end{aligned}
$$

The other way?

$$
\begin{aligned}
& \frac{1}{3}_{\times 2}^{\times 2}=\frac{2}{6}_{\times 2}^{\times 2}=\frac{4}{12}=\frac{8}{24} \\
& \frac{3}{4} \times 10=\frac{30}{40}
\end{aligned}
$$

eg. $\frac{3}{5} \overbrace{\times 8}^{\times 8}=\frac{24}{40}$
Numerator
Denominator
eg $\frac{1}{\frac{1}{2}=\frac{20}{40}}$

$\div 3$


