## nrich

## **Fractions Jigsaw**

Cut up the pieces below into squares (don't cut along the diagonal lines!)

Now try to put the 25 square pieces together without rotating any of them (so that in the finished jigsaw all the numbers are the right way up).

**Rule**: two pieces may only go next to each other if the edges that touch contain fractions that are equivalent.

$ \begin{array}{c c} 3 \times \frac{1}{8} \\ \frac{2}{22} \\ \end{array} $	$ \begin{array}{c c} 9 \\ \hline 12 \\ 6 \\ \hline 13 \end{array} $ 1 $ \begin{array}{c} 5 \\ \hline 11 \end{array} $	$\frac{\frac{4}{10}}{\frac{3}{2}}$ $\frac{1}{11}$ $\frac{\frac{3}{4}}{\frac{3}{4}}$	$\frac{9}{39}$ $\frac{3}{6}$ $\frac{1}{48} + \frac{1}{48}$	$\frac{\frac{6}{8}}{\frac{2}{5}}$
$\frac{8}{12}$ $\frac{7}{8}$ $\frac{5}{4}$	$\frac{6}{6}$ $\frac{4}{30}$ $\frac{1}{2} + \frac{2}{8}$	$\begin{array}{c c} \frac{3}{4} \\ \frac{1}{4} & \frac{7}{12} \end{array}$	$\begin{array}{c c} 50 \\ 110 \\ 3+2 \\ \hline 4 & 4 \end{array}$	$\frac{24}{64}$ $\frac{1}{5}$ $\frac{7}{8}$ $\frac{1}{2}$
$\begin{array}{c} \frac{2}{4} \\ \frac{1}{3} \\ \frac{2}{3} \end{array}$	3 11 21 24	$\frac{\frac{1}{24}}{\frac{4}{10}}$ $\frac{9}{10}$ $\frac{3}{8}$	$ \begin{array}{c c}  & 12 \\  \hline  & 16 \\  \hline  & 2 \\  \hline  & 12 \\  \hline  & 12 \\  \hline  & 26 \\  \hline  & 3 - \frac{1}{12} \\  \hline  & 4 - \frac{1}{12} \end{array} $	$   \begin{array}{c}     \frac{3}{8} \\     \frac{1}{4} + \frac{1}{4} \\     \frac{3}{8} - \frac{2}{8}   \end{array} $
3 8 2 6 11 15	$\frac{\frac{1}{3} + \frac{1}{3}}{\frac{4}{6}}$ $\frac{8}{32}$	$\frac{\frac{1}{4}}{\frac{1}{6}}$ $\frac{1}{11} + \frac{2}{11}$	$\frac{3}{15}$ $\frac{3}{13}$ $\frac{300}{400}$	8 88 3 40
$ \begin{array}{c c}                                    $	10 100 14 24	8 60 100 1000	$\frac{1}{2}$ $\frac{1}{2}$	$   \begin{array}{r}     \frac{2}{3} - \frac{1}{6} \\     \frac{3}{10} + \frac{6}{10} \\     \hline     \frac{1}{8}   \end{array} $