

Name KEY

Enrichment

10-4

Where Should the Numbers Go?

Rearrange the numerators of the three given fractions to form three equivalent fractions.

Example: $\frac{1}{9}, \frac{2}{3}, \frac{3}{6}$ are not equivalent fractions. But by rearranging the numerators 1, 2, and 3, you can form $\frac{3}{9}, \frac{1}{3}$, and $\frac{2}{6}$, which are equivalent fractions.

1. $\frac{2}{15}, \frac{4}{5}, \frac{6}{10}$

$$\begin{array}{r} 6 \div 3 = 2 \\ \hline 15 \end{array} \quad \begin{array}{r} 2 \times 2 = 4 \\ \hline 5 \end{array} \quad \begin{array}{r} 5 \\ \hline 10 \end{array}$$

3. $\frac{15}{6}, \frac{5}{12}, \frac{10}{18}$ *Type 0*

$$\begin{array}{r} 5 \div 2 = 2 \\ \hline 6 \end{array} \quad \begin{array}{r} 10 \times 3 = 30 \\ \hline 12 \times 3 = 36 \end{array} \quad \begin{array}{r} 15 \\ \hline 18 \end{array}$$

2. $\frac{1}{12}, \frac{3}{8}, \frac{2}{4}$

$$\begin{array}{r} 3 \div 3 = 1 \\ \hline 12 \end{array} \quad \begin{array}{r} 1 \times 2 = 2 \\ \hline 4 \end{array} \quad \begin{array}{r} 2 \\ \hline 8 \end{array}$$

4. $\frac{3}{14}, \frac{9}{7}, \frac{6}{21}$

$$\begin{array}{r} 9 \div 3 = 3 \\ \hline 21 \end{array} \quad \begin{array}{r} 3 \times 2 = 6 \\ \hline 7 \times 2 = 14 \end{array} \quad \begin{array}{r} 6 \\ \hline 14 \end{array}$$

Rearrange the denominators to form three equivalent fractions.

5. $\frac{3}{12}, \frac{2}{36}, \frac{1}{24}$

$$\begin{array}{r} 1 \times 2 = 2 \\ \hline 12 \end{array} \quad \begin{array}{r} 2 \times 2 = 4 \\ \hline 36 \end{array} \quad \begin{array}{r} 3 \div 3 = 1 \\ \hline 24 \end{array} = \frac{1}{12}$$

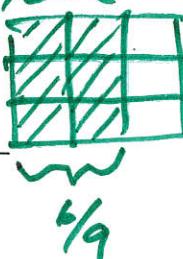
6. $\frac{7}{9}, \frac{9}{11}, \frac{11}{7}$

$$\begin{array}{r} 7 \\ \hline 7 \end{array} \quad \begin{array}{r} 9 \\ \hline 9 \end{array} \quad \begin{array}{r} 11 \\ \hline 11 \end{array}$$

Use the four numbers to build at least two pairs of equivalent fractions.

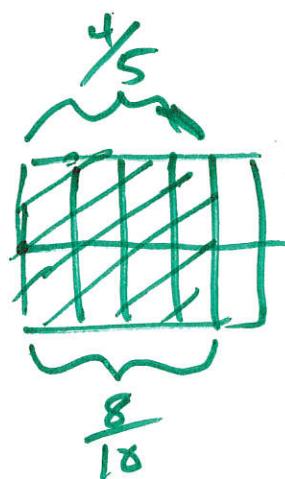
9. 2, 3, 6, 9

$$\frac{2}{3} \quad \frac{6}{9}$$



11. 4, 5, 8, 10

$$\frac{4}{5} \quad \frac{8}{10}$$



#9 & #11 draw a model to prove they are equivalent.

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#10 & #11 10. 3, 4, 15, 20

$$\frac{3 \times 5}{4 \times 5} = \frac{15}{20}$$

use mult.

or

12. 7, 12, 28, 48

$$\frac{28 \div 4}{48 \div 4} = \frac{7}{12}$$

division to prove.