

COUNTDOWN Challenge

Adding & Subtracting Fractions

Do you have a nickname? Do friends or family members call you something different from your given name? Did you know fractions can have different names?

Study the following names for $\frac{1}{2}$ then list 10 more. $\frac{1}{2}, \frac{2}{4}, \frac{3}{6}, \frac{4}{8}, \dots$

Use this same strategy to complete the addition and subtraction problems below.

Find the name for $\frac{1}{2}$ that will make each problem easy.

$$\begin{array}{r} \frac{1}{2} = \frac{2}{4} \\ + \frac{1}{4} \\ \hline \end{array} \quad \begin{array}{r} \frac{1}{2} = \frac{3}{6} \\ + \frac{1}{6} \\ \hline \end{array} \quad \begin{array}{r} \frac{1}{2} = \frac{4}{8} \\ + \frac{1}{8} \\ \hline \end{array} \quad \begin{array}{r} \frac{1}{2} \\ + \frac{1}{10} \\ \hline \end{array} \quad \begin{array}{r} \frac{1}{2} \\ - \frac{3}{12} \\ \hline \end{array} \quad \begin{array}{r} \frac{1}{2} \\ + \frac{1}{14} \\ \hline \end{array} \quad \begin{array}{r} \frac{1}{2} \\ + \frac{1}{20} \\ \hline \end{array}$$

Find the name for $\frac{1}{3}$ that will make each problem easy. $\frac{1}{3}, \frac{2}{6}, \dots$

$$\begin{array}{r} \frac{1}{3} \\ + \frac{1}{6} \\ \hline \end{array} \quad \begin{array}{r} \frac{1}{9} \\ + \frac{1}{3} \\ \hline \end{array} \quad \begin{array}{r} \frac{1}{12} \\ + \frac{1}{3} \\ \hline \end{array} \quad \begin{array}{r} \frac{1}{3} \\ - \frac{4}{15} \\ \hline \end{array} \quad \begin{array}{r} \frac{7}{21} \\ + \frac{1}{3} \\ \hline \end{array} \quad \begin{array}{r} \frac{17}{30} \\ - \frac{1}{3} \\ \hline \end{array} \quad \begin{array}{r} \frac{1}{3} \\ + \frac{8}{24} \\ \hline \end{array}$$

Find the name for $\frac{3}{5}$ that will make each problem easy. $\frac{3}{5}, \frac{6}{10}, \dots$

$$\begin{array}{r} \frac{3}{5} \\ + \frac{1}{20} \\ \hline \end{array} \quad \begin{array}{r} \frac{3}{15} \\ + \frac{3}{5} \\ \hline \end{array} \quad \begin{array}{r} \frac{3}{25} \\ + \frac{3}{5} \\ \hline \end{array} \quad \begin{array}{r} \frac{3}{5} \\ + \frac{3}{45} \\ \hline \end{array} \quad \begin{array}{r} \frac{49}{50} \\ - \frac{3}{5} \\ \hline \end{array} \quad \begin{array}{r} \frac{26}{30} \\ - \frac{3}{5} \\ \hline \end{array} \quad \begin{array}{r} \frac{3}{5} \\ - \frac{1}{35} \\ \hline \end{array}$$

Find the name for $\frac{7}{8}$ that will make each problem easy.

$$\begin{array}{r} \frac{7}{8} \\ + \frac{1}{24} \\ \hline \end{array} \quad \begin{array}{r} \frac{7}{8} \\ - \frac{1}{16} \\ \hline \end{array} \quad \begin{array}{r} \frac{1}{32} \\ + \frac{7}{8} \\ \hline \end{array} \quad \begin{array}{r} \frac{7}{8} \\ + \frac{1}{80} \\ \hline \end{array} \quad \begin{array}{r} \frac{7}{8} \\ + \frac{7}{8} \\ \hline \end{array} \quad \begin{array}{r} \frac{7}{8} \\ - \frac{5}{24} \\ \hline \end{array} \quad \begin{array}{r} \frac{7}{8} \\ + \frac{5}{16} \\ \hline \end{array}$$