

What **proper** fraction do you add or subtract to get to the next step?

1

$$\begin{array}{l} \frac{19}{7} \\ 2\frac{2}{7} \\ 1\frac{3}{7} \\ \frac{15}{7} \\ 2 \\ \frac{17}{7} \\ 1\frac{6}{7} \end{array} \begin{array}{l} \left. \begin{array}{l} \frac{19}{7} \\ 2\frac{2}{7} \end{array} \right\} -\frac{3}{7} \\ \left. \begin{array}{l} 2\frac{2}{7} \\ 1\frac{3}{7} \end{array} \right\} -\frac{6}{7} \\ \left. \begin{array}{l} 1\frac{3}{7} \\ \frac{15}{7} \end{array} \right\} +\frac{5}{7} \\ \left. \begin{array}{l} \frac{15}{7} \\ 2 \end{array} \right\} -\frac{1}{7} \\ \left. \begin{array}{l} 2 \\ \frac{17}{7} \end{array} \right\} +\frac{3}{7} \\ \left. \begin{array}{l} \frac{17}{7} \\ 1\frac{6}{7} \end{array} \right\} -\frac{4}{7} \end{array}$$

2

$$\begin{array}{l} \frac{57}{11} \\ 5\frac{5}{11} \\ \frac{68}{11} \\ 6\frac{9}{11} \\ 5\frac{10}{11} \\ \frac{67}{11} \\ 5\frac{6}{11} \\ \frac{70}{11} \end{array} \begin{array}{l} \left. \begin{array}{l} \frac{57}{11} \\ 5\frac{5}{11} \end{array} \right\} +\frac{3}{11} \\ \left. \begin{array}{l} 5\frac{5}{11} \\ \frac{68}{11} \end{array} \right\} +\frac{8}{11} \\ \left. \begin{array}{l} \frac{68}{11} \\ 6\frac{9}{11} \end{array} \right\} +\frac{7}{11} \\ \left. \begin{array}{l} 6\frac{9}{11} \\ 5\frac{10}{11} \end{array} \right\} -\frac{10}{11} \\ \left. \begin{array}{l} 5\frac{10}{11} \\ \frac{67}{11} \end{array} \right\} +\frac{2}{11} \\ \left. \begin{array}{l} \frac{67}{11} \\ 5\frac{6}{11} \end{array} \right\} -\frac{6}{11} \\ \left. \begin{array}{l} 5\frac{6}{11} \\ \frac{70}{11} \end{array} \right\} +\frac{9}{11} \end{array}$$

3

$$\begin{array}{l} \frac{15}{4} \\ 4\frac{1}{2} \\ \frac{17}{4} \\ 5 \\ \frac{23}{4} \\ 6\frac{1}{2} \\ \frac{25}{4} \\ 7 \end{array} \begin{array}{l} \left. \begin{array}{l} \frac{15}{4} \\ 4\frac{1}{2} \end{array} \right\} +\frac{3}{4} \\ \left. \begin{array}{l} 4\frac{1}{2} \\ \frac{17}{4} \end{array} \right\} -\frac{1}{4} \\ \left. \begin{array}{l} \frac{17}{4} \\ 5 \end{array} \right\} +\frac{3}{4} \\ \left. \begin{array}{l} 5 \\ \frac{23}{4} \end{array} \right\} +\frac{3}{4} \\ \left. \begin{array}{l} \frac{23}{4} \\ 6\frac{1}{2} \end{array} \right\} +\frac{3}{4} \\ \left. \begin{array}{l} 6\frac{1}{2} \\ \frac{25}{4} \end{array} \right\} -\frac{1}{4} \\ \left. \begin{array}{l} \frac{25}{4} \\ 7 \end{array} \right\} +\frac{3}{4} \end{array}$$

4

$$\begin{array}{l} \frac{35}{8} \\ 3\frac{1}{2} \\ \frac{29}{8} \\ 4 \\ \frac{31}{8} \\ 3\frac{1}{4} \\ \frac{19}{8} \\ 3 \end{array} \begin{array}{l} \left. \begin{array}{l} \frac{35}{8} \\ 3\frac{1}{2} \end{array} \right\} -\frac{7}{8} \\ \left. \begin{array}{l} 3\frac{1}{2} \\ \frac{29}{8} \end{array} \right\} +\frac{1}{8} \\ \left. \begin{array}{l} \frac{29}{8} \\ 4 \end{array} \right\} +\frac{3}{8} \\ \left. \begin{array}{l} 4 \\ \frac{31}{8} \end{array} \right\} -\frac{1}{8} \\ \left. \begin{array}{l} \frac{31}{8} \\ 3\frac{1}{4} \end{array} \right\} -\frac{5}{8} \\ \left. \begin{array}{l} 3\frac{1}{4} \\ \frac{19}{8} \end{array} \right\} -\frac{7}{8} \\ \left. \begin{array}{l} \frac{19}{8} \\ 3 \end{array} \right\} +\frac{5}{8} \end{array}$$

5

$$\begin{array}{l} \frac{19}{10} \\ 2\frac{1}{5} \\ \frac{12}{5} \\ 1\frac{7}{10} \\ \frac{11}{5} \\ 2 \\ \frac{13}{5} \\ 3\frac{1}{10} \end{array} \begin{array}{l} \left. \begin{array}{l} \frac{19}{10} \\ 2\frac{1}{5} \end{array} \right\} +\frac{3}{10} \\ \left. \begin{array}{l} 2\frac{1}{5} \\ \frac{12}{5} \end{array} \right\} +\frac{1}{5} \\ \left. \begin{array}{l} \frac{12}{5} \\ 1\frac{7}{10} \end{array} \right\} -\frac{7}{10} \\ \left. \begin{array}{l} 1\frac{7}{10} \\ \frac{11}{5} \end{array} \right\} +\frac{1}{2} \\ \left. \begin{array}{l} \frac{11}{5} \\ 2 \end{array} \right\} -\frac{1}{5} \\ \left. \begin{array}{l} 2 \\ \frac{13}{5} \end{array} \right\} +\frac{3}{5} \\ \left. \begin{array}{l} \frac{13}{5} \\ 3\frac{1}{10} \end{array} \right\} +\frac{1}{2} \end{array}$$

6

$$\begin{array}{l} 2\frac{5}{12} \\ \frac{11}{6} \\ 2\frac{1}{12} \\ 5\frac{1}{2} \\ 3\frac{1}{4} \\ \frac{19}{6} \\ 3\frac{5}{6} \\ \frac{14}{3} \end{array} \begin{array}{l} \left. \begin{array}{l} 2\frac{5}{12} \\ \frac{11}{6} \end{array} \right\} -\frac{7}{12} \\ \left. \begin{array}{l} \frac{11}{6} \\ 2\frac{1}{12} \end{array} \right\} +\frac{1}{4} \\ \left. \begin{array}{l} 2\frac{1}{12} \\ 5\frac{1}{2} \end{array} \right\} +\frac{5}{12} \\ \left. \begin{array}{l} 5\frac{1}{2} \\ 3\frac{1}{4} \end{array} \right\} +\frac{3}{4} \\ \left. \begin{array}{l} 3\frac{1}{4} \\ \frac{19}{6} \end{array} \right\} -\frac{1}{12} \\ \left. \begin{array}{l} \frac{19}{6} \\ 3\frac{5}{6} \end{array} \right\} +\frac{2}{3} \\ \left. \begin{array}{l} 3\frac{5}{6} \\ \frac{14}{3} \end{array} \right\} +\frac{5}{6} \end{array}$$

7

$$\begin{array}{l} 4\frac{7}{20} \\ \frac{41}{10} \\ 3\frac{2}{5} \\ \frac{18}{5} \\ 3\frac{1}{10} \\ 2\frac{1}{2} \\ \frac{13}{4} \\ 3\frac{4}{5} \end{array} \begin{array}{l} \left. \begin{array}{l} 4\frac{7}{20} \\ \frac{41}{10} \end{array} \right\} -\frac{1}{4} \\ \left. \begin{array}{l} \frac{41}{10} \\ 3\frac{2}{5} \end{array} \right\} -\frac{7}{10} \\ \left. \begin{array}{l} 3\frac{2}{5} \\ \frac{18}{5} \end{array} \right\} +\frac{1}{5} \\ \left. \begin{array}{l} \frac{18}{5} \\ 3\frac{1}{10} \end{array} \right\} -\frac{1}{2} \\ \left. \begin{array}{l} 3\frac{1}{10} \\ 2\frac{1}{2} \end{array} \right\} -\frac{3}{5} \\ \left. \begin{array}{l} 2\frac{1}{2} \\ \frac{13}{4} \end{array} \right\} +\frac{3}{4} \\ \left. \begin{array}{l} \frac{13}{4} \\ 3\frac{4}{5} \end{array} \right\} +\frac{11}{20} \end{array}$$

8

$$\begin{array}{l} \frac{35}{16} \\ 1\frac{15}{16} \\ \frac{37}{16} \\ 2\frac{3}{8} \\ \frac{23}{8} \\ 2 \\ \frac{9}{4} \\ 2\frac{1}{16} \end{array} \begin{array}{l} \left. \begin{array}{l} \frac{35}{16} \\ 1\frac{15}{16} \end{array} \right\} -\frac{1}{4} \\ \left. \begin{array}{l} 1\frac{15}{16} \\ \frac{37}{16} \end{array} \right\} +\frac{3}{8} \\ \left. \begin{array}{l} \frac{37}{16} \\ 2\frac{3}{8} \end{array} \right\} +\frac{1}{16} \\ \left. \begin{array}{l} 2\frac{3}{8} \\ \frac{23}{8} \end{array} \right\} +\frac{1}{2} \\ \left. \begin{array}{l} \frac{23}{8} \\ 2 \end{array} \right\} -\frac{7}{8} \\ \left. \begin{array}{l} 2 \\ \frac{9}{4} \end{array} \right\} +\frac{1}{4} \\ \left. \begin{array}{l} \frac{9}{4} \\ 2\frac{1}{16} \end{array} \right\} -\frac{3}{16} \end{array}$$