

# Opérations Mixtes (E)

## Complétez les exercices suivants

$$\begin{array}{r}
 + \quad 1 \\
 + \quad 6 \\
 \hline
 - \quad 6
 \end{array}
 \quad
 \begin{array}{r}
 - \quad 16 \\
 - \quad 6 \\
 \hline
 + \quad 3
 \end{array}
 \quad
 \begin{array}{r}
 + \quad 3 \\
 + \quad 3 \\
 \hline
 + \quad 8
 \end{array}
 \quad
 \begin{array}{r}
 + \quad 3 \\
 + \quad 3 \\
 \hline
 + \quad 12
 \end{array}
 \quad
 \begin{array}{r}
 + \quad 12 \\
 + \quad 10 \\
 \hline
 - \quad 16
 \end{array}
 \quad
 \begin{array}{r}
 + \quad 3 \\
 + \quad 3 \\
 \hline
 + \quad 6
 \end{array}
 \quad
 \begin{array}{r}
 - \quad 2 \\
 - \quad 2 \\
 \hline
 + \quad 4
 \end{array}
 \quad
 \begin{array}{r}
 + \quad 9 \\
 + \quad 9 \\
 \hline
 + \quad 8
 \end{array}$$

$$\begin{array}{r}
 -\frac{8}{5} \quad +\frac{8}{7} \quad -\frac{9}{5} \quad -\frac{17}{11} \quad +\frac{11}{6} \quad -\frac{8}{1} \quad -\frac{5}{2} \quad -\frac{20}{12} \quad +\frac{9}{11} \quad +\frac{5}{3}
 \end{array}$$

$$\begin{array}{r}
 -18 \\
 -7 \\
 \hline
 -9
 \end{array}
 \quad
 \begin{array}{r}
 -17 \\
 -9 \\
 \hline
 -9
 \end{array}
 \quad
 \begin{array}{r}
 -12 \\
 -6 \\
 \hline
 -6
 \end{array}
 \quad
 \begin{array}{r}
 7 \\
 +12 \\
 \hline
 9
 \end{array}
 \quad
 \begin{array}{r}
 9 \\
 -8 \\
 \hline
 11
 \end{array}
 \quad
 \begin{array}{r}
 11 \\
 -3 \\
 \hline
 8
 \end{array}
 \quad
 \begin{array}{r}
 10 \\
 -11 \\
 \hline
 12
 \end{array}
 \quad
 \begin{array}{r}
 12 \\
 +8 \\
 \hline
 7
 \end{array}
 \quad
 \begin{array}{r}
 7 \\
 -12 \\
 \hline
 20
 \end{array}$$

$$+ \begin{array}{r} 6 \\ 7 \end{array} + \begin{array}{r} 1 \\ 5 \end{array} - \begin{array}{r} 19 \\ 9 \end{array} - \begin{array}{r} 20 \\ 8 \end{array} - \begin{array}{r} 17 \\ 12 \end{array} + \begin{array}{r} 6 \\ 2 \end{array} + \begin{array}{r} 9 \\ 4 \end{array} - \begin{array}{r} 8 \\ 5 \end{array} - \begin{array}{r} 15 \\ 4 \end{array} - \begin{array}{r} 10 \\ 9 \end{array}$$

$$-\frac{12}{10} - \frac{3}{1} + \frac{3}{10} + \frac{7}{10} + \frac{11}{5} + \frac{10}{6} + \frac{11}{11} + \frac{8}{4} + \frac{4}{11} + \frac{9}{3}$$

$$+ \frac{7}{12} + \frac{10}{4} - \frac{6}{4} - \frac{7}{5} - \frac{3}{2} - \frac{15}{4} + \frac{3}{3} - \frac{9}{2} - \frac{10}{7} + \frac{12}{3}$$

$$+ \frac{2}{10} = \frac{11}{1} - \frac{15}{11} = \frac{10}{1} + \frac{1}{1} = \frac{12}{10} + \frac{1}{4} = \frac{13}{10} + \frac{12}{9} = \frac{12}{8}$$

$$= \frac{19}{7} + \frac{7}{8} - \frac{20}{9} + \frac{7}{12} - \frac{24}{12} - \frac{13}{8} - \frac{11}{8} - \frac{10}{2} + \frac{9}{7} + \frac{2}{2}$$

$$+ \frac{6}{7} + \frac{5}{8} + \frac{7}{5} + \frac{4}{8} - \frac{13}{7} + \frac{12}{5} - \frac{19}{7} + \frac{5}{6} - \frac{10}{3} + \frac{2}{11}$$

$$= \frac{14}{4} = \frac{8}{6} + \frac{7}{2} + \frac{9}{9} = \frac{11}{2} = \frac{10}{9} = \frac{20}{8} + \frac{1}{11} = \frac{19}{11} + \frac{6}{5}$$