

## Opérations Mixtes (B)

## Complétez les exercices suivants

$$\begin{array}{r}
 -20 \\
 -7 \\
 \hline
 -13
 \end{array}
 \quad
 \begin{array}{r}
 -11 \\
 -4 \\
 \hline
 -15
 \end{array}
 \quad
 \begin{array}{r}
 -15 \\
 -3 \\
 \hline
 -18
 \end{array}
 \quad
 \begin{array}{r}
 -18 \\
 -6 \\
 \hline
 -24
 \end{array}
 \quad
 \begin{array}{r}
 +2 \\
 +7 \\
 \hline
 +9
 \end{array}
 \quad
 \begin{array}{r}
 +4 \\
 +8 \\
 \hline
 +12
 \end{array}
 \quad
 \begin{array}{r}
 +5 \\
 +4 \\
 \hline
 +9
 \end{array}
 \quad
 \begin{array}{r}
 -23 \\
 -12 \\
 \hline
 -35
 \end{array}
 \quad
 \begin{array}{r}
 -17 \\
 -2 \\
 \hline
 -19
 \end{array}
 \quad
 \begin{array}{r}
 +6 \\
 +1 \\
 \hline
 +7
 \end{array}$$

$$\begin{array}{r}
 -\frac{9}{2} + \frac{5}{6} + \frac{5}{14} + \frac{13}{1} - \frac{10}{1} + \frac{1}{9} + \frac{5}{5} - \frac{15}{2} - \frac{24}{11} + \frac{8}{3}
 \end{array}$$

$$\begin{array}{r}
 -\frac{13}{7} + \frac{15}{13} - \frac{21}{13} - \frac{15}{12} + \frac{10}{8} - \frac{16}{10} + \frac{10}{11} + \frac{2}{15} + \frac{4}{14} - \frac{22}{9}
 \end{array}$$

$$-\frac{21}{15} - \frac{7}{4} + \frac{8}{5} - \frac{14}{5} + \frac{5}{5} + \frac{12}{3} - \frac{7}{1} - \frac{19}{11} - \frac{17}{14} - \frac{15}{8}$$

$$+ \frac{2}{9} - \frac{2}{1} - \frac{13}{7} - \frac{7}{6} + \frac{6}{1} - \frac{12}{7} - \frac{20}{9} - \frac{29}{14} - \frac{14}{10} - \frac{12}{7}$$

$$+ \frac{11}{3} + \frac{11}{14} - \frac{10}{2} + \frac{12}{8} - \frac{9}{5} + \frac{3}{5} + \frac{3}{13} - \frac{14}{3} - \frac{18}{8} + \frac{12}{5}$$

$$+ \frac{14}{+ 14} \quad + \frac{8}{+ 14} \quad - \frac{11}{- 4} \quad - \frac{13}{- 12} \quad - \frac{8}{- 6} \quad + \frac{5}{+ 15} \quad + \frac{1}{+ 14} \quad + \frac{11}{+ 2} \quad + \frac{2}{+ 6} \quad + \frac{3}{+ 13}$$

$$= \frac{17}{3} + \frac{7}{14} + \frac{9}{4} - \frac{19}{13} - \frac{17}{14} + \frac{15}{5} + \frac{6}{13} + \frac{9}{13} + \frac{1}{11} - \frac{10}{7}$$

$$= \frac{11}{7} + \frac{2}{1} + \frac{2}{12} - \frac{25}{11} + \frac{8}{15} + \frac{13}{1} + \frac{4}{10} + \frac{8}{3} + \frac{11}{6} + \frac{7}{5}$$

$$+ \frac{10}{12} + \frac{9}{4} - \frac{15}{4} - \frac{12}{2} + \frac{2}{12} - \frac{8}{2} - \frac{16}{9} + \frac{2}{9} - \frac{27}{14} - \frac{13}{6}$$

# Opérations Mixtes Solutions (B)

Complétez les exercices suivants

$$\begin{array}{r} -20 \\ -\underline{7} \\ \hline 13 \end{array} \quad \begin{array}{r} -11 \\ -\underline{4} \\ \hline 7 \end{array} \quad \begin{array}{r} -15 \\ -\underline{3} \\ \hline 12 \end{array} \quad \begin{array}{r} -18 \\ -\underline{6} \\ \hline 12 \end{array} \quad \begin{array}{r} +2 \\ +\underline{7} \\ \hline 9 \end{array} \quad \begin{array}{r} +4 \\ +\underline{8} \\ \hline 12 \end{array} \quad \begin{array}{r} +5 \\ +\underline{4} \\ \hline 9 \end{array} \quad \begin{array}{r} -23 \\ -\underline{12} \\ \hline 11 \end{array} \quad \begin{array}{r} -17 \\ -\underline{2} \\ \hline 15 \end{array} \quad \begin{array}{r} +6 \\ +\underline{1} \\ \hline 7 \end{array}$$
$$\begin{array}{r} -9 \\ -\underline{2} \\ \hline 7 \end{array} \quad \begin{array}{r} +5 \\ +\underline{6} \\ \hline 11 \end{array} \quad \begin{array}{r} +5 \\ +\underline{14} \\ \hline 19 \end{array} \quad \begin{array}{r} +13 \\ +\underline{1} \\ \hline 14 \end{array} \quad \begin{array}{r} -10 \\ -\underline{1} \\ \hline 9 \end{array} \quad \begin{array}{r} +1 \\ +\underline{9} \\ \hline 10 \end{array} \quad \begin{array}{r} +5 \\ +\underline{5} \\ \hline 10 \end{array} \quad \begin{array}{r} -15 \\ -\underline{2} \\ \hline 13 \end{array} \quad \begin{array}{r} -24 \\ -\underline{11} \\ \hline 13 \end{array} \quad \begin{array}{r} +8 \\ +\underline{3} \\ \hline 11 \end{array}$$
$$\begin{array}{r} -13 \\ -\underline{7} \\ \hline 6 \end{array} \quad \begin{array}{r} +15 \\ +\underline{13} \\ \hline 28 \end{array} \quad \begin{array}{r} -21 \\ -\underline{13} \\ \hline 8 \end{array} \quad \begin{array}{r} -15 \\ -\underline{12} \\ \hline 3 \end{array} \quad \begin{array}{r} +10 \\ +\underline{8} \\ \hline 18 \end{array} \quad \begin{array}{r} -16 \\ -\underline{10} \\ \hline 6 \end{array} \quad \begin{array}{r} +10 \\ +\underline{11} \\ \hline 21 \end{array} \quad \begin{array}{r} -2 \\ -\underline{15} \\ \hline 17 \end{array} \quad \begin{array}{r} +4 \\ +\underline{14} \\ \hline 18 \end{array} \quad \begin{array}{r} -22 \\ -\underline{9} \\ \hline 13 \end{array}$$
$$\begin{array}{r} -21 \\ -\underline{15} \\ \hline 6 \end{array} \quad \begin{array}{r} 7 \\ -\underline{4} \\ \hline 3 \end{array} \quad \begin{array}{r} 8 \\ +\underline{5} \\ \hline 13 \end{array} \quad \begin{array}{r} -14 \\ -\underline{5} \\ \hline 9 \end{array} \quad \begin{array}{r} +5 \\ +\underline{5} \\ \hline 10 \end{array} \quad \begin{array}{r} +12 \\ +\underline{3} \\ \hline 15 \end{array} \quad \begin{array}{r} 7 \\ -\underline{1} \\ \hline 6 \end{array} \quad \begin{array}{r} -19 \\ -\underline{11} \\ \hline 8 \end{array} \quad \begin{array}{r} -17 \\ -\underline{14} \\ \hline 3 \end{array} \quad \begin{array}{r} -15 \\ -\underline{8} \\ \hline 7 \end{array}$$
$$\begin{array}{r} +2 \\ +\underline{9} \\ \hline 11 \end{array} \quad \begin{array}{r} 2 \\ -\underline{1} \\ \hline 1 \end{array} \quad \begin{array}{r} -13 \\ -\underline{7} \\ \hline 6 \end{array} \quad \begin{array}{r} -7 \\ -\underline{6} \\ \hline 1 \end{array} \quad \begin{array}{r} +6 \\ +\underline{1} \\ \hline 7 \end{array} \quad \begin{array}{r} -12 \\ -\underline{7} \\ \hline 5 \end{array} \quad \begin{array}{r} -20 \\ -\underline{9} \\ \hline 11 \end{array} \quad \begin{array}{r} -29 \\ -\underline{14} \\ \hline 15 \end{array} \quad \begin{array}{r} -14 \\ -\underline{10} \\ \hline 4 \end{array} \quad \begin{array}{r} -12 \\ -\underline{7} \\ \hline 5 \end{array}$$
$$\begin{array}{r} +11 \\ +\underline{3} \\ \hline 14 \end{array} \quad \begin{array}{r} 11 \\ +\underline{14} \\ \hline 25 \end{array} \quad \begin{array}{r} -10 \\ -\underline{2} \\ \hline 8 \end{array} \quad \begin{array}{r} +12 \\ +\underline{8} \\ \hline 20 \end{array} \quad \begin{array}{r} -9 \\ -\underline{5} \\ \hline 4 \end{array} \quad \begin{array}{r} +3 \\ +\underline{5} \\ \hline 8 \end{array} \quad \begin{array}{r} 3 \\ +\underline{13} \\ \hline 16 \end{array} \quad \begin{array}{r} -14 \\ -\underline{3} \\ \hline 11 \end{array} \quad \begin{array}{r} -18 \\ -\underline{8} \\ \hline 10 \end{array} \quad \begin{array}{r} -12 \\ -\underline{5} \\ \hline 17 \end{array}$$
$$\begin{array}{r} +14 \\ +\underline{14} \\ \hline 28 \end{array} \quad \begin{array}{r} 8 \\ +\underline{14} \\ \hline 22 \end{array} \quad \begin{array}{r} -11 \\ -\underline{4} \\ \hline 7 \end{array} \quad \begin{array}{r} -13 \\ -\underline{12} \\ \hline 1 \end{array} \quad \begin{array}{r} -8 \\ -\underline{6} \\ \hline 2 \end{array} \quad \begin{array}{r} +5 \\ +\underline{15} \\ \hline 20 \end{array} \quad \begin{array}{r} 1 \\ +\underline{14} \\ \hline 15 \end{array} \quad \begin{array}{r} 11 \\ +\underline{2} \\ \hline 13 \end{array} \quad \begin{array}{r} 2 \\ +\underline{6} \\ \hline 8 \end{array} \quad \begin{array}{r} 3 \\ +\underline{13} \\ \hline 16 \end{array}$$
$$\begin{array}{r} -17 \\ -\underline{3} \\ \hline 14 \end{array} \quad \begin{array}{r} 7 \\ +\underline{14} \\ \hline 21 \end{array} \quad \begin{array}{r} 9 \\ +\underline{4} \\ \hline 13 \end{array} \quad \begin{array}{r} -19 \\ -\underline{13} \\ \hline 6 \end{array} \quad \begin{array}{r} -17 \\ -\underline{14} \\ \hline 3 \end{array} \quad \begin{array}{r} +15 \\ +\underline{5} \\ \hline 20 \end{array} \quad \begin{array}{r} 6 \\ +\underline{13} \\ \hline 19 \end{array} \quad \begin{array}{r} 9 \\ +\underline{13} \\ \hline 22 \end{array} \quad \begin{array}{r} 1 \\ +\underline{11} \\ \hline 12 \end{array} \quad \begin{array}{r} -10 \\ -\underline{7} \\ \hline 3 \end{array}$$
$$\begin{array}{r} -11 \\ -\underline{7} \\ \hline 4 \end{array} \quad \begin{array}{r} 2 \\ +\underline{1} \\ \hline 3 \end{array} \quad \begin{array}{r} 2 \\ +\underline{12} \\ \hline 14 \end{array} \quad \begin{array}{r} -25 \\ -\underline{11} \\ \hline 14 \end{array} \quad \begin{array}{r} 8 \\ +\underline{15} \\ \hline 23 \end{array} \quad \begin{array}{r} 13 \\ +\underline{1} \\ \hline 14 \end{array} \quad \begin{array}{r} 4 \\ +\underline{10} \\ \hline 14 \end{array} \quad \begin{array}{r} 8 \\ +\underline{3} \\ \hline 11 \end{array} \quad \begin{array}{r} 11 \\ +\underline{6} \\ \hline 17 \end{array} \quad \begin{array}{r} 7 \\ +\underline{5} \\ \hline 12 \end{array}$$
$$\begin{array}{r} +10 \\ +\underline{12} \\ \hline 22 \end{array} \quad \begin{array}{r} 9 \\ +\underline{4} \\ \hline 13 \end{array} \quad \begin{array}{r} -15 \\ -\underline{4} \\ \hline 11 \end{array} \quad \begin{array}{r} -12 \\ -\underline{2} \\ \hline 10 \end{array} \quad \begin{array}{r} 2 \\ +\underline{12} \\ \hline 14 \end{array} \quad \begin{array}{r} -8 \\ -\underline{2} \\ \hline 6 \end{array} \quad \begin{array}{r} -16 \\ -\underline{9} \\ \hline 7 \end{array} \quad \begin{array}{r} 2 \\ +\underline{9} \\ \hline 11 \end{array} \quad \begin{array}{r} 27 \\ -\underline{14} \\ \hline 13 \end{array} \quad \begin{array}{r} -13 \\ -\underline{6} \\ \hline 7 \end{array}$$