

## Opérations Mixtes (B)

## Complétez les exercices suivants

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

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

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

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

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

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

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

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

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

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