

Opérations Mixtes (I)

Complétez les exercices suivants

$$\begin{array}{r}
 + 18 \\
 + 17 \\
 \hline
\end{array}
 \quad
 \begin{array}{r}
 + 16 \\
 + 17 \\
 \hline
\end{array}
 \quad
 \begin{array}{r}
 + 20 \\
 + 13 \\
 \hline
\end{array}
 \quad
 \begin{array}{r}
 - 34 \\
 - 18 \\
 \hline
\end{array}
 \quad
 \begin{array}{r}
 - 25 \\
 - 6 \\
 \hline
\end{array}
 \quad
 \begin{array}{r}
 - 18 \\
 - 11 \\
 \hline
\end{array}
 \quad
 \begin{array}{r}
 - 33 \\
 - 17 \\
 \hline
\end{array}
 \quad
 \begin{array}{r}
 - 24 \\
 - 4 \\
 \hline
\end{array}
 \quad
 \begin{array}{r}
 - 13 \\
 - 7 \\
 \hline
\end{array}
 \quad
 \begin{array}{r}
 - 28 \\
 - 16 \\
 \hline
\end{array}$$

$$\begin{array}{r}
 -23 \\
 -13 \\
 \hline
 +20 \\
 +8 \\
 \hline
 -4 \\
 +8 \\
 \hline
 12 \\
 +13 \\
 \hline
 4 \\
 +17 \\
 \hline
 15 \\
 -14 \\
 \hline
 18 \\
 +19 \\
 \hline
 2 \\
 -10 \\
 \hline
 18 \\
 -12
 \end{array}$$

$$\begin{array}{r}
 + 5 \\
 + 13 \\
 \hline
 - 2 \\
 + 8 \\
 + 13 \\
 \hline
 - 19 \\
 + 5 \\
 \hline
 - 1 \\
 + 7 \\
 + 5 \\
 \hline
 + 18
 \end{array}$$

$$\begin{array}{r}
 + 18 & - 18 & - 19 & - 22 & + 1 & + 5 & - 7 & + 14 & - 21 & - 17 \\
 + 15 & - 14 & - 16 & - 10 & + 16 & + 7 & - 5 & + 16 & - 8 & - 16
 \end{array}$$

$$+ \begin{array}{r} 14 \\ 9 \end{array} \quad + \begin{array}{r} 12 \\ 15 \end{array} \quad + \begin{array}{r} 5 \\ 14 \end{array} \quad + \begin{array}{r} 15 \\ 9 \end{array} \quad + \begin{array}{r} 3 \\ 2 \end{array} \quad + \begin{array}{r} 7 \\ 6 \end{array} \quad + \begin{array}{r} 15 \\ 4 \end{array} \quad + \begin{array}{r} 13 \\ 10 \end{array} \quad - \begin{array}{r} 22 \\ 19 \end{array} \quad - \begin{array}{r} 15 \\ 7 \end{array}$$

$$+ \begin{matrix} 16 \\ 19 \end{matrix} \quad + \begin{matrix} 2 \\ 8 \end{matrix} \quad - \begin{matrix} 29 \\ 10 \end{matrix} \quad - \begin{matrix} 29 \\ 14 \end{matrix} \quad + \begin{matrix} 5 \\ 12 \end{matrix} \quad + \begin{matrix} 16 \\ 9 \end{matrix} \quad + \begin{matrix} 16 \\ 14 \end{matrix} \quad - \begin{matrix} 29 \\ 13 \end{matrix} \quad - \begin{matrix} 20 \\ 14 \end{matrix} \quad - \begin{matrix} 34 \\ 17 \end{matrix}$$

$$- \frac{6}{3} = \frac{26}{17} + \frac{8}{20} + \frac{18}{9} + \frac{9}{1} - \frac{35}{18} + \frac{5}{13} + \frac{2}{1} + \frac{1}{2} - \frac{13}{4}$$

$$+ \frac{16}{17} + \frac{19}{19} + \frac{8}{10} + \frac{18}{14} - \frac{23}{18} - \frac{31}{15} - \frac{17}{8} + \frac{18}{8} - \frac{19}{3} - \frac{15}{6}$$

$$= \frac{21}{4} = \frac{37}{19} + \frac{13}{18} + \frac{15}{17} + \frac{9}{12} = \frac{37}{20} + \frac{8}{9} = \frac{25}{5} = \frac{31}{14} + \frac{12}{11}$$

$$= \frac{30}{18} - \frac{23}{16} = \frac{27}{8} - \frac{9}{3} + \frac{19}{5} + \frac{14}{11} = \frac{15}{3} - \frac{22}{8} + \frac{19}{10} = \frac{8}{7}$$