

Opérations Mixtes (I)

Complétez les exercices suivants

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

$$\begin{array}{r}
 -\frac{23}{13} + \frac{20}{8} - \frac{23}{4} + \frac{12}{8} + \frac{4}{13} + \frac{15}{17} - \frac{18}{14} + \frac{2}{19} - \frac{18}{10} - \frac{24}{12}
 \end{array}$$

$$+ \frac{5}{13} - \frac{5}{2} + \frac{15}{8} + \frac{19}{13} - \frac{30}{19} + \frac{15}{5} - \frac{4}{1} + \frac{12}{7} + \frac{18}{5} + \frac{3}{18}$$

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

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

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

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

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

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

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

Opérations Mixtes Solutions (I)

Complétez les exercices suivants

$\frac{18}{+ 17}$	$\frac{16}{+ 17}$	$\frac{20}{+ 13}$	$\frac{34}{- 18}$	$\frac{25}{- 6}$	$\frac{18}{- 11}$	$\frac{33}{- 17}$	$\frac{24}{- 4}$	$\frac{13}{- 7}$	$\frac{28}{- 16}$
$\underline{35}$	$\underline{33}$	$\underline{33}$	$\underline{16}$	$\underline{19}$	$\underline{7}$	$\underline{16}$	$\underline{20}$	$\underline{6}$	$\underline{12}$
$\frac{23}{- 13}$	$\frac{20}{+ 8}$	$\frac{23}{- 4}$	$\frac{12}{+ 8}$	$\frac{4}{+ 13}$	$\frac{15}{+ 17}$	$\frac{18}{- 14}$	$\frac{2}{+ 19}$	$\frac{18}{- 10}$	$\frac{24}{- 12}$
$\underline{10}$	$\underline{28}$	$\underline{19}$	$\underline{20}$	$\underline{17}$	$\underline{32}$	$\underline{4}$	$\underline{21}$	$\underline{8}$	$\underline{12}$
$\frac{5}{+ 13}$	$\frac{5}{- 2}$	$\frac{15}{+ 8}$	$\frac{19}{+ 13}$	$\frac{30}{- 19}$	$\frac{15}{+ 5}$	$\frac{4}{- 1}$	$\frac{12}{+ 7}$	$\frac{18}{+ 5}$	$\frac{3}{+ 18}$
$\underline{18}$	$\underline{3}$	$\underline{23}$	$\underline{32}$	$\underline{11}$	$\underline{20}$	$\underline{3}$	$\underline{19}$	$\underline{23}$	$\underline{21}$
$\frac{18}{+ 15}$	$\frac{18}{- 14}$	$\frac{19}{- 16}$	$\frac{22}{- 10}$	$\frac{1}{+ 16}$	$\frac{5}{+ 7}$	$\frac{7}{- 5}$	$\frac{14}{+ 16}$	$\frac{21}{- 8}$	$\frac{17}{- 16}$
$\underline{33}$	$\underline{4}$	$\underline{3}$	$\underline{12}$	$\underline{17}$	$\underline{12}$	$\underline{2}$	$\underline{30}$	$\underline{13}$	$\underline{1}$
$\frac{14}{+ 9}$	$\frac{12}{+ 15}$	$\frac{5}{+ 14}$	$\frac{15}{+ 9}$	$\frac{3}{+ 2}$	$\frac{7}{+ 6}$	$\frac{15}{+ 4}$	$\frac{13}{+ 10}$	$\frac{22}{- 19}$	$\frac{15}{- 7}$
$\underline{23}$	$\underline{27}$	$\underline{19}$	$\underline{24}$	$\underline{5}$	$\underline{13}$	$\underline{19}$	$\underline{23}$	$\underline{3}$	$\underline{8}$
$\frac{16}{+ 19}$	$\frac{2}{+ 8}$	$\frac{29}{- 10}$	$\frac{29}{- 14}$	$\frac{5}{+ 12}$	$\frac{16}{+ 9}$	$\frac{16}{+ 14}$	$\frac{29}{- 13}$	$\frac{20}{- 14}$	$\frac{34}{- 17}$
$\underline{35}$	$\underline{10}$	$\underline{19}$	$\underline{15}$	$\underline{17}$	$\underline{25}$	$\underline{30}$	$\underline{16}$	$\underline{6}$	$\underline{17}$
$\frac{6}{- 3}$	$\frac{26}{- 17}$	$\frac{8}{+ 20}$	$\frac{18}{+ 9}$	$\frac{9}{+ 1}$	$\frac{35}{- 18}$	$\frac{5}{+ 13}$	$\frac{2}{+ 1}$	$\frac{1}{+ 2}$	$\frac{13}{- 4}$
$\underline{3}$	$\underline{9}$	$\underline{28}$	$\underline{27}$	$\underline{10}$	$\underline{17}$	$\underline{18}$	$\underline{3}$	$\underline{3}$	$\underline{9}$
$\frac{16}{+ 17}$	$\frac{19}{+ 19}$	$\frac{8}{+ 10}$	$\frac{18}{+ 14}$	$\frac{23}{- 18}$	$\frac{31}{- 15}$	$\frac{17}{- 8}$	$\frac{18}{+ 8}$	$\frac{19}{- 3}$	$\frac{15}{- 6}$
$\underline{33}$	$\underline{38}$	$\underline{18}$	$\underline{32}$	$\underline{5}$	$\underline{16}$	$\underline{9}$	$\underline{26}$	$\underline{16}$	$\underline{9}$
$\frac{21}{- 4}$	$\frac{37}{- 19}$	$\frac{13}{+ 18}$	$\frac{15}{+ 17}$	$\frac{9}{+ 12}$	$\frac{37}{- 20}$	$\frac{8}{+ 9}$	$\frac{25}{- 5}$	$\frac{31}{- 14}$	$\frac{12}{+ 11}$
$\underline{17}$	$\underline{18}$	$\underline{31}$	$\underline{32}$	$\underline{21}$	$\underline{17}$	$\underline{17}$	$\underline{20}$	$\underline{17}$	$\underline{23}$
$\frac{30}{- 18}$	$\frac{23}{- 16}$	$\frac{27}{- 8}$	$\frac{9}{- 3}$	$\frac{19}{+ 5}$	$\frac{14}{+ 11}$	$\frac{15}{- 3}$	$\frac{22}{- 8}$	$\frac{19}{+ 10}$	$\frac{8}{- 7}$
$\underline{12}$	$\underline{7}$	$\underline{19}$	$\underline{6}$	$\underline{24}$	$\underline{25}$	$\underline{12}$	$\underline{14}$	$\underline{29}$	$\underline{1}$