

Opérations Mixtes (A)

Complétez les exercices suivants

$$\begin{array}{r}
 + 15 \\
 + 14 \\
 \hline
 \end{array}
 \quad
 \begin{array}{r}
 + 2 \\
 + 9 \\
 \hline
 \end{array}
 \quad
 \begin{array}{r}
 - 9 \\
 - 6 \\
 \hline
 \end{array}
 \quad
 \begin{array}{r}
 - 17 \\
 - 4 \\
 \hline
 \end{array}
 \quad
 \begin{array}{r}
 + 5 \\
 + 7 \\
 \hline
 \end{array}
 \quad
 \begin{array}{r}
 + 1 \\
 + 3 \\
 \hline
 \end{array}
 \quad
 \begin{array}{r}
 - 16 \\
 - 12 \\
 \hline
 \end{array}
 \quad
 \begin{array}{r}
 - 30 \\
 - 15 \\
 \hline
 \end{array}
 \quad
 \begin{array}{r}
 + 15 \\
 + 10 \\
 \hline
 \end{array}
 \quad
 \begin{array}{r}
 - 11 \\
 - 2 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 + 3 \\
 + 12 \\
 \hline
 - 15 \\
 - 11 \\
 \hline
 - 18 \\
 - 11 \\
 \hline
 - 17 \\
 - 13 \\
 \hline
 + 4 \\
 + 13 \\
 \hline
 - 10 \\
 - 10 \\
 \hline
 + 11 \\
 + 13 \\
 \hline
 - 30 \\
 - 15 \\
 \hline
 + 6 \\
 + 9 \\
 \hline
 - 6 \\
 - 4
 \end{array}$$

$$\begin{array}{r}
 + \quad 8 \\
 + \quad 9 \\
 \hline
 - \quad 9
 \end{array}
 \quad
 \begin{array}{r}
 + \quad 15 \\
 + \quad 15 \\
 \hline
 + \quad 1
 \end{array}
 \quad
 \begin{array}{r}
 - \quad 23 \\
 - \quad 10 \\
 \hline
 - \quad 14
 \end{array}
 \quad
 \begin{array}{r}
 - \quad 18 \\
 - \quad 14 \\
 \hline
 - \quad 1
 \end{array}
 \quad
 \begin{array}{r}
 - \quad 16 \\
 - \quad 1 \\
 \hline
 + \quad 7
 \end{array}
 \quad
 \begin{array}{r}
 + \quad 2 \\
 + \quad 7 \\
 \hline
 - \quad 7
 \end{array}
 \quad
 \begin{array}{r}
 - \quad 21 \\
 - \quad 7 \\
 \hline
 - \quad 2
 \end{array}$$

$$\begin{array}{r}
 + \quad 2 \\
 + \quad 5 \\
 \hline
 + \quad 7 \\
 + \quad 14 \\
 \hline
 + \quad 7 \\
 + \quad 1 \\
 \hline
 - \quad 4 \\
 - \quad 3 \\
 \hline
 - \quad 13 \\
 - \quad 9 \\
 \hline
 - \quad 11 \\
 - \quad 3 \\
 \hline
 - \quad 8 \\
 - \quad 7 \\
 \hline
 + \quad 15 \\
 + \quad 8 \\
 \hline
 + \quad 13 \\
 + \quad 12 \\
 \hline
 - \quad 14 \\
 - \quad 3
 \end{array}$$

$$\begin{array}{r}
 + 15 \\
 + 11 \\
 \hline
 - 5
 \end{array}
 \quad
 \begin{array}{r}
 + 13 \\
 + 8 \\
 \hline
 - 3
 \end{array}
 \quad
 \begin{array}{r}
 + 9 \\
 + 2 \\
 \hline
 - 8
 \end{array}
 \quad
 \begin{array}{r}
 + 14 \\
 - 8 \\
 \hline
 - 10
 \end{array}
 \quad
 \begin{array}{r}
 + 13 \\
 - 10 \\
 \hline
 - 7
 \end{array}
 \quad
 \begin{array}{r}
 + 9 \\
 + 1 \\
 \hline
 + 15
 \end{array}$$

$$-\frac{14}{1} + \frac{12}{6} + \frac{13}{12} + \frac{12}{11} + \frac{10}{5} - \frac{10}{8} - \frac{8}{6} - \frac{11}{6} - \frac{17}{8} - \frac{17}{2}$$

$$-\frac{25}{10} + \frac{12}{5} + \frac{3}{9} - \frac{5}{1} + \frac{9}{12} - \frac{15}{4} - \frac{20}{13} - \frac{21}{14} - \frac{15}{6} - \frac{13}{1}$$

$$+ \frac{14}{10} - \frac{11}{9} - \frac{11}{6} + \frac{1}{13} + \frac{7}{8} - \frac{15}{13} - \frac{4}{3} - \frac{22}{12} + \frac{4}{7} + \frac{15}{11}$$

$$-\frac{19}{5} + \frac{13}{10} + \frac{5}{9} - \frac{23}{11} - \frac{10}{1} - \frac{23}{12} - \frac{30}{15} + \frac{11}{15} - \frac{14}{2} - \frac{17}{2}$$

$$-\frac{19}{5} + \frac{12}{13} + \frac{4}{3} + \frac{13}{11} - \frac{27}{13} + \frac{12}{6} - \frac{12}{4} + \frac{3}{14} - \frac{27}{15} + \frac{9}{12}$$

Opérations Mixtes Solutions (A)

Complétez les exercices suivants

$$\begin{array}{r}
 + 15 & + 2 & - 9 & - 17 & + 5 & + 1 & - 16 & - 30 & + 15 & - 11 \\
 + 14 & + 9 & - 6 & - 4 & + 7 & + 3 & - 12 & - 15 & + 10 & - 2 \\
 \hline
 29 & 11 & 3 & 13 & 12 & 4 & 4 & 15 & 25 & 9
 \end{array}$$

$$\begin{array}{r}
 + 3 & - 15 & - 18 & - 17 & + 4 & - 11 & - 13 & - 30 & + 6 & - 6 \\
 + 12 & - 11 & - 11 & - 13 & + 13 & - 10 & + 13 & - 15 & + 9 & - 4 \\
 \hline
 15 & 4 & 7 & 4 & 17 & 1 & 26 & 15 & 15 & 2
 \end{array}$$

$$\begin{array}{r}
 + 8 & - 11 & + 15 & + 15 & - 23 & - 18 & - 16 & - 2 & - 21 & - 14 \\
 + 9 & - 9 & + 15 & + 1 & - 10 & - 14 & - 1 & 7 & - 7 & - 2 \\
 \hline
 17 & 2 & 30 & 16 & 13 & 4 & 15 & 9 & 14 & 12
 \end{array}$$

$$\begin{array}{r}
 + 2 & + 7 & + 7 & - 4 & - 13 & - 11 & - 8 & - 15 & - 13 & - 14 \\
 + 5 & + 14 & + 1 & - 3 & - 9 & - 3 & - 7 & + 8 & + 12 & - 3 \\
 \hline
 7 & 21 & 8 & 1 & 4 & 8 & 1 & 23 & 25 & 11
 \end{array}$$

$$\begin{array}{r}
 + 15 & - 16 & + 13 & - 8 & + 9 & - 14 & - 13 & - 10 & - 9 & - 15 \\
 + 11 & - 5 & + 8 & - 3 & + 2 & - 8 & - 10 & - 7 & + 1 & + 13 \\
 \hline
 26 & 11 & 21 & 5 & 11 & 6 & 3 & 3 & 10 & 28
 \end{array}$$

$$\begin{array}{r}
 - 14 & + 12 & + 13 & + 12 & + 10 & - 10 & - 8 & - 11 & - 17 & - 17 \\
 - 1 & + 6 & + 12 & + 11 & + 5 & - 8 & - 6 & - 6 & - 8 & - 2 \\
 \hline
 13 & 18 & 25 & 23 & 15 & 2 & 2 & 5 & 9 & 15
 \end{array}$$

$$\begin{array}{r}
 - 25 & + 12 & + 3 & - 5 & + 9 & - 15 & - 20 & - 21 & - 15 & - 13 \\
 - 10 & + 5 & + 9 & - 1 & + 12 & - 4 & - 13 & - 14 & - 6 & - 1 \\
 \hline
 15 & 17 & 12 & 4 & 21 & 11 & 7 & 7 & 9 & 12
 \end{array}$$

$$\begin{array}{r}
 + 14 & - 11 & - 11 & + 1 & + 7 & - 15 & - 4 & - 22 & - 4 & - 15 \\
 + 10 & - 9 & - 6 & + 13 & + 8 & - 13 & - 3 & - 12 & + 7 & + 11 \\
 \hline
 24 & 2 & 5 & 14 & 15 & 2 & 1 & 10 & 11 & 26
 \end{array}$$

$$\begin{array}{r}
 - 19 & + 13 & + 5 & - 23 & + 10 & - 23 & - 30 & - 11 & - 14 & - 17 \\
 - 5 & + 10 & + 9 & - 11 & - 1 & - 12 & - 15 & + 15 & - 2 & - 2 \\
 \hline
 14 & 23 & 14 & 12 & 9 & 11 & 15 & 26 & 12 & 15
 \end{array}$$

$$\begin{array}{r}
 - 19 & + 12 & + 4 & + 13 & + 27 & + 12 & - 12 & + 3 & - 27 & + 9 \\
 - 5 & + 13 & + 3 & + 11 & - 13 & + 6 & - 4 & + 14 & - 15 & + 12 \\
 \hline
 14 & 25 & 7 & 24 & 14 & 18 & 8 & 17 & 12 & 21
 \end{array}$$

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

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

Opérations Mixtes (C)

Complétez les exercices suivants

$$\begin{array}{r}
 -19 \\
 -7 \\
 \hline
 -15
 \end{array}
 \quad
 \begin{array}{r}
 -15 \\
 -7 \\
 \hline
 -10
 \end{array}
 \quad
 \begin{array}{r}
 -22 \\
 -14 \\
 \hline
 -26
 \end{array}
 \quad
 \begin{array}{r}
 +5 \\
 5 \\
 \hline
 10
 \end{array}
 \quad
 \begin{array}{r}
 -22 \\
 -14 \\
 \hline
 -16
 \end{array}
 \quad
 \begin{array}{r}
 +12 \\
 +13 \\
 \hline
 25
 \end{array}
 \quad
 \begin{array}{r}
 -6 \\
 -4 \\
 \hline
 -2
 \end{array}
 \quad
 \begin{array}{r}
 +11 \\
 7 \\
 \hline
 18
 \end{array}$$

$$\begin{array}{r}
 -25 \\
 -14 \\
 \hline
 +5 \\
 +8 \\
 \hline
 +1 \\
 +2 \\
 \hline
 -27 \\
 -13 \\
 \hline
 -19 \\
 -11 \\
 \hline
 -9 \\
 -9 \\
 \hline
 +17 \\
 +2 \\
 \hline
 +9 \\
 +8 \\
 \hline
 +14 \\
 +4 \\
 \hline
 +15 \\
 +4 \\
 \hline
 -7 \\
 -1
 \end{array}$$

$$\begin{array}{r}
 + \quad 9 \\
 + \quad 9 \\
 \hline
 - \quad 3 \\
 - \quad 3 \\
 \hline
 - 15 \\
 - 15 \\
 \hline
 - 26 \\
 - 10 \\
 \hline
 - 22 \\
 - 5 \\
 \hline
 - 13 \\
 - 5 \\
 \hline
 - 17 \\
 - 9 \\
 \hline
 - 22 \\
 - 5 \\
 \hline
 - 12 \\
 + \quad 5 \\
 \hline
\end{array}$$

$$\begin{array}{r}
 -23 \\
 -14 \\
 +12 \\
 +6 \\
 +7 \\
 +9 \\
 -7 \\
 -6 \\
 +6 \\
 -3 \\
 -9
 \end{array}$$

$$-\frac{23}{12} + \frac{10}{10} + \frac{5}{3} + \frac{12}{2} - \frac{15}{11} + \frac{11}{11} + \frac{7}{7} - \frac{7}{5} + \frac{7}{6} + \frac{6}{8}$$

$$+ \frac{1}{14} - \frac{29}{14} - \frac{12}{10} + \frac{1}{14} - \frac{6}{5} - \frac{5}{4} + \frac{12}{15} + \frac{13}{2} - \frac{25}{14} - \frac{4}{2}$$

$$+ \begin{array}{r} 3 \\ 3 \end{array} - \begin{array}{r} 16 \\ 11 \end{array} - \begin{array}{r} 25 \\ 15 \end{array} - \begin{array}{r} 13 \\ 10 \end{array} - \begin{array}{r} 22 \\ 9 \end{array} - \begin{array}{r} 13 \\ 4 \end{array} + \begin{array}{r} 4 \\ 13 \end{array} - \begin{array}{r} 8 \\ 3 \end{array} - \begin{array}{r} 29 \\ 15 \end{array} - \begin{array}{r} 7 \\ 3 \end{array}$$

$$= \frac{22}{7} + \frac{6}{7} + \frac{6}{8} = \frac{13}{1} + \frac{7}{6} + \frac{15}{11} + \frac{10}{11} + \frac{3}{7} + \frac{15}{14} + \frac{6}{3}$$

$$-\frac{14}{13} - \frac{13}{8} + \frac{9}{11} - \frac{27}{14} - \frac{6}{4} - \frac{15}{9} - \frac{10}{4} - \frac{17}{7} - \frac{22}{8} - \frac{19}{12}$$

$$+ \frac{10}{2} - \frac{12}{2} - \frac{29}{15} - \frac{21}{10} + \frac{1}{3} - \frac{19}{6} - \frac{7}{4} - \frac{19}{7} + \frac{1}{8} = \frac{30}{15}$$

Opérations Mixtes Solutions (C)

Complétez les exercices suivants

$$\begin{array}{r}
 -\frac{19}{7} & -\frac{15}{7} & -\frac{15}{1} & -\frac{22}{10} & -\frac{26}{14} & +\frac{5}{5} & -\frac{22}{14} & +\frac{12}{13} & -\frac{6}{4} & +\frac{11}{7} \\
 \hline
 12 & 8 & 14 & 12 & 12 & 10 & 8 & 25 & 2 & 18
 \end{array}$$

$$\begin{array}{r}
 -\frac{25}{14} & +\frac{5}{8} & +\frac{1}{2} & -\frac{27}{13} & -\frac{19}{11} & -\frac{17}{9} & +\frac{9}{2} & +\frac{14}{8} & +\frac{15}{4} & -\frac{7}{1} \\
 \hline
 11 & 13 & 3 & 14 & 8 & 8 & 11 & 22 & 19 & 6
 \end{array}$$

$$\begin{array}{r}
 +\frac{9}{9} & -\frac{4}{3} & -\frac{15}{3} & -\frac{26}{15} & -\frac{22}{10} & -\frac{13}{5} & -\frac{17}{5} & -\frac{22}{9} & -\frac{12}{5} & +\frac{6}{5} \\
 \hline
 18 & 1 & 12 & 11 & 12 & 8 & 12 & 13 & 7 & 11
 \end{array}$$

$$\begin{array}{r}
 -\frac{23}{14} & +\frac{12}{6} & +\frac{12}{7} & +\frac{8}{9} & -\frac{15}{7} & -\frac{20}{6} & +\frac{9}{6} & -\frac{22}{13} & -\frac{14}{3} & -\frac{17}{9} \\
 \hline
 9 & 18 & 19 & 17 & 8 & 14 & 15 & 9 & 11 & 8
 \end{array}$$

$$\begin{array}{r}
 -\frac{23}{12} & +\frac{10}{10} & +\frac{5}{3} & +\frac{12}{2} & -\frac{15}{11} & +\frac{11}{11} & +\frac{7}{7} & -\frac{7}{5} & +\frac{7}{6} & +\frac{6}{8} \\
 \hline
 11 & 20 & 8 & 14 & 4 & 22 & 14 & 2 & 13 & 14
 \end{array}$$

$$\begin{array}{r}
 +\frac{1}{14} & -\frac{29}{14} & -\frac{12}{10} & +\frac{1}{14} & -\frac{6}{5} & -\frac{5}{4} & +\frac{12}{15} & +\frac{13}{27} & -\frac{25}{15} & -\frac{4}{2} \\
 \hline
 15 & 15 & 2 & 15 & 1 & 1 & 27 & 15 & 11 & 2
 \end{array}$$

$$\begin{array}{r}
 +\frac{3}{3} & -\frac{16}{11} & -\frac{25}{15} & -\frac{13}{10} & -\frac{22}{9} & -\frac{13}{4} & +\frac{4}{13} & -\frac{8}{3} & -\frac{29}{15} & -\frac{7}{3} \\
 \hline
 6 & 5 & 10 & 3 & 13 & 9 & 17 & 5 & 14 & 4
 \end{array}$$

$$\begin{array}{r}
 -\frac{22}{7} & +\frac{6}{7} & +\frac{6}{8} & -\frac{13}{1} & +\frac{7}{6} & +\frac{15}{11} & +\frac{10}{11} & +\frac{3}{7} & +\frac{15}{14} & +\frac{6}{3} \\
 \hline
 15 & 13 & 14 & 12 & 13 & 26 & 21 & 10 & 29 & 9
 \end{array}$$

$$\begin{array}{r}
 -\frac{14}{13} & -\frac{13}{8} & +\frac{9}{11} & -\frac{27}{14} & -\frac{6}{4} & -\frac{15}{9} & -\frac{10}{4} & -\frac{17}{7} & -\frac{22}{8} & -\frac{19}{12} \\
 \hline
 1 & 5 & 20 & 13 & 2 & 6 & 6 & 10 & 14 & 7
 \end{array}$$

$$\begin{array}{r}
 +\frac{10}{2} & -\frac{12}{2} & -\frac{29}{15} & -\frac{21}{10} & +\frac{1}{3} & -\frac{19}{6} & -\frac{7}{4} & -\frac{19}{7} & +\frac{1}{8} & -\frac{30}{15} \\
 \hline
 12 & 10 & 14 & 11 & 4 & 13 & 3 & 12 & 9 & 15
 \end{array}$$

Opérations Mixtes (D)

Complétez les exercices suivants

$$\begin{array}{r}
 3 & -27 & -19 & 7 & -20 & +11 & +11 & 2 & 8 & +14 \\
 +14 & -15 & -10 & +11 & -6 & +10 & +2 & +7 & -1 & +11 \\
 \hline
\end{array}$$

$$\begin{array}{r}
 -26 \\
 -12 \\
 \hline
 -5
 \end{array}
 \quad
 \begin{array}{r}
 +12 \\
 +15 \\
 \hline
 27
 \end{array}
 \quad
 \begin{array}{r}
 -11 \\
 -14 \\
 \hline
 -25
 \end{array}
 \quad
 \begin{array}{r}
 +6 \\
 +5 \\
 \hline
 11
 \end{array}
 \quad
 \begin{array}{r}
 -22 \\
 -10 \\
 \hline
 -32
 \end{array}
 \quad
 \begin{array}{r}
 +5 \\
 +10 \\
 \hline
 15
 \end{array}
 \quad
 \begin{array}{r}
 +5 \\
 +4 \\
 \hline
 9
 \end{array}
 \quad
 \begin{array}{r}
 -16 \\
 -1 \\
 \hline
 -17
 \end{array}$$

$$\begin{array}{r}
 -21 \\
 -13 \\
 \hline
 -16 \\
 -15 \\
 \hline
 -17 \\
 -14 \\
 \hline
 -23 \\
 -10 \\
 \hline
 -15 \\
 -1 \\
 \hline
 +5 \\
 +10 \\
 \hline
 +5 \\
 +7 \\
 \hline
 +7 \\
 +6 \\
 \hline
 -13 \\
 -9 \\
 \hline
 +15 \\
 +13
 \end{array}$$

$$\begin{array}{r}
 -\frac{21}{9} \quad -\frac{11}{9} \quad -\frac{22}{9} \quad -\frac{14}{5} \quad -\frac{19}{8} \quad +\frac{15}{8} \quad -\frac{13}{11} \quad -\frac{12}{1} \quad +\frac{10}{3} \quad -\frac{24}{14}
 \end{array}$$

$$\begin{array}{r}
 -14 \\
 -1 \\
 \hline
 +12 \\
 \hline
 -14 \\
 -11 \\
 \hline
 -5 \\
 +13 \\
 \hline
 +3 \\
 \hline
 -2 \\
 +8 \\
 \hline
 +9 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 -18 \\
 -11 \\
 \hline
 -29
 \end{array}
 \quad
 \begin{array}{r}
 -23 \\
 -13 \\
 \hline
 -36
 \end{array}
 \quad
 \begin{array}{r}
 +5 \\
 +15 \\
 \hline
 +20
 \end{array}
 \quad
 \begin{array}{r}
 +2 \\
 +14 \\
 \hline
 +16
 \end{array}
 \quad
 \begin{array}{r}
 -21 \\
 -15 \\
 \hline
 -36
 \end{array}
 \quad
 \begin{array}{r}
 +8 \\
 +10 \\
 \hline
 +18
 \end{array}
 \quad
 \begin{array}{r}
 +13 \\
 +11 \\
 \hline
 +24
 \end{array}
 \quad
 \begin{array}{r}
 -14 \\
 -10 \\
 \hline
 -24
 \end{array}
 \quad
 \begin{array}{r}
 -21 \\
 -12 \\
 \hline
 -33
 \end{array}
 \quad
 \begin{array}{r}
 -20 \\
 -10 \\
 \hline
 -30
 \end{array}$$

$$\begin{array}{r}
 18 & 24 & 23 & 13 & 15 & 8 & 8 & 12 & 5 & 11 \\
 -14 & -9 & -13 & -9 & +4 & +1 & -5 & +3 & +10 & -4 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 -20 \\
 -5 \\
 \hline
 +1 \\
 +8 \\
 \hline
 +3 \\
 +12 \\
 \hline
 +5 \\
 +1 \\
 \hline
 -17 \\
 -3 \\
 \hline
 -8 \\
 -2 \\
 \hline
 -4 \\
 -4 \\
 \hline
 -13 \\
 +12 \\
 \hline
 +10 \\
 -10 \\
 \hline
 -15 \\
 +9 \\
 \hline
 +13
 \end{array}$$

$$\begin{array}{r}
 -\frac{4}{3} & -\frac{20}{7} & -\frac{21}{10} & -\frac{16}{1} & -\frac{16}{3} & +\frac{5}{3} & +\frac{10}{8} & -\frac{14}{5} & +\frac{3}{3} & -\frac{24}{9}
 \end{array}$$

$$\begin{array}{r}
 -23 \\
 -11 \\
 \hline
 +11
 \end{array}
 \quad
 \begin{array}{r}
 +10 \\
 +7 \\
 \hline
 -7
 \end{array}
 \quad
 \begin{array}{r}
 -12 \\
 -10 \\
 \hline
 -2
 \end{array}
 \quad
 \begin{array}{r}
 -16 \\
 -2 \\
 \hline
 -2
 \end{array}
 \quad
 \begin{array}{r}
 -15 \\
 -11 \\
 \hline
 -4
 \end{array}
 \quad
 \begin{array}{r}
 -24 \\
 -11 \\
 \hline
 -4
 \end{array}
 \quad
 \begin{array}{r}
 +11 \\
 -4 \\
 \hline
 +3
 \end{array}
 \quad
 \begin{array}{r}
 +4 \\
 +3 \\
 \hline
 -2
 \end{array}$$

Opérations Mixtes Solutions (D)

Complétez les exercices suivants

$$\begin{array}{r}
 + 14 \\
 \hline
 17
 \end{array}
 \quad
 \begin{array}{r}
 - 15 \\
 \hline
 12
 \end{array}
 \quad
 \begin{array}{r}
 - 10 \\
 \hline
 9
 \end{array}
 \quad
 \begin{array}{r}
 + 11 \\
 \hline
 18
 \end{array}
 \quad
 \begin{array}{r}
 - 6 \\
 \hline
 14
 \end{array}
 \quad
 \begin{array}{r}
 + 10 \\
 \hline
 21
 \end{array}
 \quad
 \begin{array}{r}
 + 2 \\
 \hline
 13
 \end{array}
 \quad
 \begin{array}{r}
 + 7 \\
 \hline
 9
 \end{array}
 \quad
 \begin{array}{r}
 - 1 \\
 \hline
 7
 \end{array}
 \quad
 \begin{array}{r}
 + 11 \\
 \hline
 25
 \end{array}$$

$$\begin{array}{r}
 - 12 \\
 \hline
 14
 \end{array}
 \quad
 \begin{array}{r}
 - 5 \\
 \hline
 2
 \end{array}
 \quad
 \begin{array}{r}
 + 4 \\
 \hline
 16
 \end{array}
 \quad
 \begin{array}{r}
 + 15 \\
 \hline
 26
 \end{array}
 \quad
 \begin{array}{r}
 - 14 \\
 \hline
 8
 \end{array}
 \quad
 \begin{array}{r}
 + 5 \\
 \hline
 11
 \end{array}
 \quad
 \begin{array}{r}
 - 10 \\
 \hline
 12
 \end{array}
 \quad
 \begin{array}{r}
 + 10 \\
 \hline
 15
 \end{array}
 \quad
 \begin{array}{r}
 + 4 \\
 \hline
 9
 \end{array}
 \quad
 \begin{array}{r}
 - 1 \\
 \hline
 15
 \end{array}$$

$$\begin{array}{r}
 - 13 \\
 \hline
 8
 \end{array}
 \quad
 \begin{array}{r}
 - 15 \\
 \hline
 1
 \end{array}
 \quad
 \begin{array}{r}
 - 14 \\
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 3
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 \begin{array}{r}
 - 10 \\
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 13
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 - 1 \\
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 + 10 \\
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 + 7 \\
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 12
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 \quad
 \begin{array}{r}
 + 6 \\
 \hline
 13
 \end{array}
 \quad
 \begin{array}{r}
 - 9 \\
 \hline
 4
 \end{array}
 \quad
 \begin{array}{r}
 + 13 \\
 \hline
 28
 \end{array}$$

$$\begin{array}{r}
 - 9 \\
 \hline
 12
 \end{array}
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 \begin{array}{r}
 - 9 \\
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 2
 \end{array}
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 \begin{array}{r}
 - 9 \\
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 13
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 - 5 \\
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 \quad
 \begin{array}{r}
 - 8 \\
 \hline
 11
 \end{array}
 \quad
 \begin{array}{r}
 + 8 \\
 \hline
 23
 \end{array}
 \quad
 \begin{array}{r}
 - 11 \\
 \hline
 2
 \end{array}
 \quad
 \begin{array}{r}
 - 1 \\
 \hline
 11
 \end{array}
 \quad
 \begin{array}{r}
 + 3 \\
 \hline
 13
 \end{array}
 \quad
 \begin{array}{r}
 - 14 \\
 \hline
 10
 \end{array}$$

$$\begin{array}{r}
 - 1 \\
 \hline
 13
 \end{array}
 \quad
 \begin{array}{r}
 + 12 \\
 \hline
 26
 \end{array}
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 \begin{array}{r}
 - 14 \\
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 \quad
 \begin{array}{r}
 - 11 \\
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 \begin{array}{r}
 - 5 \\
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 8
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 \quad
 \begin{array}{r}
 + 13 \\
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 18
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 + 3 \\
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 - 2 \\
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 \begin{array}{r}
 + 8 \\
 \hline
 11
 \end{array}
 \quad
 \begin{array}{r}
 + 9 \\
 \hline
 20
 \end{array}$$

$$\begin{array}{r}
 - 11 \\
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 7
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 \begin{array}{r}
 - 13 \\
 \hline
 10
 \end{array}
 \quad
 \begin{array}{r}
 + 15 \\
 \hline
 20
 \end{array}
 \quad
 \begin{array}{r}
 + 14 \\
 \hline
 16
 \end{array}
 \quad
 \begin{array}{r}
 - 15 \\
 \hline
 6
 \end{array}
 \quad
 \begin{array}{r}
 + 10 \\
 \hline
 18
 \end{array}
 \quad
 \begin{array}{r}
 + 11 \\
 \hline
 24
 \end{array}
 \quad
 \begin{array}{r}
 - 10 \\
 \hline
 4
 \end{array}
 \quad
 \begin{array}{r}
 - 12 \\
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 9
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 \quad
 \begin{array}{r}
 - 10 \\
 \hline
 10
 \end{array}$$

$$\begin{array}{r}
 - 14 \\
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 \begin{array}{r}
 - 9 \\
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 \end{array}
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 \begin{array}{r}
 - 13 \\
 \hline
 10
 \end{array}
 \quad
 \begin{array}{r}
 - 9 \\
 \hline
 4
 \end{array}
 \quad
 \begin{array}{r}
 + 4 \\
 \hline
 19
 \end{array}
 \quad
 \begin{array}{r}
 + 1 \\
 \hline
 9
 \end{array}
 \quad
 \begin{array}{r}
 - 5 \\
 \hline
 3
 \end{array}
 \quad
 \begin{array}{r}
 + 3 \\
 \hline
 15
 \end{array}
 \quad
 \begin{array}{r}
 + 10 \\
 \hline
 15
 \end{array}
 \quad
 \begin{array}{r}
 - 4 \\
 \hline
 7
 \end{array}$$

$$\begin{array}{r}
 - 5 \\
 \hline
 15
 \end{array}
 \quad
 \begin{array}{r}
 + 8 \\
 \hline
 9
 \end{array}
 \quad
 \begin{array}{r}
 + 12 \\
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 15
 \end{array}
 \quad
 \begin{array}{r}
 + 1 \\
 \hline
 6
 \end{array}
 \quad
 \begin{array}{r}
 - 3 \\
 \hline
 14
 \end{array}
 \quad
 \begin{array}{r}
 - 2 \\
 \hline
 6
 \end{array}
 \quad
 \begin{array}{r}
 - 4 \\
 \hline
 9
 \end{array}
 \quad
 \begin{array}{r}
 + 12 \\
 \hline
 22
 \end{array}
 \quad
 \begin{array}{r}
 - 10 \\
 \hline
 5
 \end{array}
 \quad
 \begin{array}{r}
 + 9 \\
 \hline
 22
 \end{array}$$

$$\begin{array}{r}
 - 3 \\
 \hline
 1
 \end{array}
 \quad
 \begin{array}{r}
 - 7 \\
 \hline
 13
 \end{array}
 \quad
 \begin{array}{r}
 - 10 \\
 \hline
 11
 \end{array}
 \quad
 \begin{array}{r}
 - 1 \\
 \hline
 15
 \end{array}
 \quad
 \begin{array}{r}
 - 3 \\
 \hline
 13
 \end{array}
 \quad
 \begin{array}{r}
 + 3 \\
 \hline
 8
 \end{array}
 \quad
 \begin{array}{r}
 + 8 \\
 \hline
 18
 \end{array}
 \quad
 \begin{array}{r}
 - 5 \\
 \hline
 9
 \end{array}
 \quad
 \begin{array}{r}
 + 3 \\
 \hline
 6
 \end{array}
 \quad
 \begin{array}{r}
 - 9 \\
 \hline
 15
 \end{array}$$

$$\begin{array}{r}
 - 11 \\
 \hline
 12
 \end{array}
 \quad
 \begin{array}{r}
 + 11 \\
 \hline
 12
 \end{array}
 \quad
 \begin{array}{r}
 + 7 \\
 \hline
 17
 \end{array}
 \quad
 \begin{array}{r}
 - 7 \\
 \hline
 5
 \end{array}
 \quad
 \begin{array}{r}
 - 10 \\
 \hline
 6
 \end{array}
 \quad
 \begin{array}{r}
 - 2 \\
 \hline
 13
 \end{array}
 \quad
 \begin{array}{r}
 - 11 \\
 \hline
 13
 \end{array}
 \quad
 \begin{array}{r}
 - 4 \\
 \hline
 7
 \end{array}
 \quad
 \begin{array}{r}
 + 3 \\
 \hline
 7
 \end{array}
 \quad
 \begin{array}{r}
 - 2 \\
 \hline
 3
 \end{array}$$

Opérations Mixtes (E)

Complétez les exercices suivants

$$\begin{array}{r}
 + 13 \\
 + 5 \\
 \hline
 - 4
 \end{array}
 \quad
 \begin{array}{r}
 - 7 \\
 - 12 \\
 \hline
 + 9
 \end{array}
 \quad
 \begin{array}{r}
 - 19 \\
 - 2 \\
 \hline
 - 15
 \end{array}
 \quad
 \begin{array}{r}
 - 15 \\
 - 9 \\
 \hline
 - 10
 \end{array}
 \quad
 \begin{array}{r}
 - 18 \\
 - 10 \\
 \hline
 + 4
 \end{array}
 \quad
 \begin{array}{r}
 + 8 \\
 + 4 \\
 \hline
 + 13
 \end{array}
 \quad
 \begin{array}{r}
 + 6 \\
 + 6 \\
 \hline
 - 7
 \end{array}$$

$$\begin{array}{r}
 -13 \\
 -11 \\
 \hline
 -23
 \end{array}
 \quad
 \begin{array}{r}
 -27 \\
 -15 \\
 \hline
 +1
 \end{array}
 \quad
 \begin{array}{r}
 15 \\
 +11 \\
 \hline
 3
 \end{array}
 \quad
 \begin{array}{r}
 4 \\
 +6 \\
 \hline
 6
 \end{array}
 \quad
 \begin{array}{r}
 13 \\
 -6 \\
 \hline
 7
 \end{array}
 \quad
 \begin{array}{r}
 7 \\
 +9 \\
 \hline
 9
 \end{array}
 \quad
 \begin{array}{r}
 8 \\
 -2 \\
 \hline
 6
 \end{array}
 \quad
 \begin{array}{r}
 14 \\
 -7 \\
 \hline
 7
 \end{array}$$

$$+ \frac{11}{9} - \frac{20}{5} + \frac{5}{1} + \frac{7}{1} + \frac{1}{1} + \frac{11}{7} + \frac{11}{12} - \frac{19}{15} - \frac{28}{15} - \frac{15}{6}$$

$$-\frac{21}{11} - \frac{16}{7} - \frac{20}{11} + \frac{7}{7} + \frac{10}{13} - \frac{19}{9} - \frac{16}{4} - \frac{15}{5} + \frac{2}{8} + \frac{14}{13}$$

$$+ \begin{array}{r} 14 \\ 7 \end{array} \quad + \begin{array}{r} 12 \\ 12 \end{array} \quad + \begin{array}{r} 15 \\ 1 \end{array} \quad - \begin{array}{r} 7 \\ 5 \end{array} \quad + \begin{array}{r} 13 \\ 14 \end{array} \quad + \begin{array}{r} 13 \\ 14 \end{array} \quad - \begin{array}{r} 3 \\ 2 \end{array} \quad - \begin{array}{r} 18 \\ 4 \end{array} \quad - \begin{array}{r} 19 \\ 11 \end{array} \quad - \begin{array}{r} 16 \\ 8 \end{array}$$

$$+ \frac{2}{15} + \frac{1}{7} + \frac{3}{9} - \frac{6}{2} - \frac{21}{10} - \frac{13}{2} - \frac{20}{11} + \frac{10}{14} + \frac{15}{7} + \frac{14}{6}$$

$$+ \frac{1}{12} + \frac{13}{5} + \frac{3}{9} + \frac{5}{6} - \frac{29}{14} - \frac{19}{15} - \frac{14}{5} - \frac{20}{9} - \frac{12}{10} + \frac{12}{12}$$

$$= \frac{21}{12} = \frac{3}{2} = \frac{27}{14} = \frac{9}{8} = \frac{27}{14} = \frac{12}{7} + \frac{5}{9} = \frac{13}{11} + \frac{15}{15} = \frac{12}{4}$$

$$+ \frac{2}{5} + \frac{8}{9} + \frac{5}{6} + \frac{11}{11} + \frac{10}{5} - \frac{14}{13} + \frac{7}{4} - \frac{10}{1} - \frac{21}{14} + \frac{13}{3}$$

$$-\frac{11}{10} - \frac{25}{11} = -\frac{13}{2} + \frac{4}{13} + \frac{13}{7} + \frac{12}{4} = -\frac{20}{5} + \frac{6}{13} = -\frac{17}{5} = -\frac{24}{10}$$

Opérations Mixtes Solutions (E)

Complétez les exercices suivants

$$\begin{array}{r}
 + 13 & - 7 & + 9 & - 19 & - 15 & - 15 & - 18 & + 8 & + 13 & - 18 \\
 + 5 & - 4 & + 9 & - 12 & - 2 & - 9 & - 10 & + 4 & + 6 & - 7 \\
 \hline
 18 & 3 & 18 & 7 & 13 & 6 & 8 & 12 & 19 & 11
 \end{array}$$

$$\begin{array}{r}
 - 13 & - 23 & - 27 & + 15 & 3 & 4 & - 13 & 7 & 8 & - 14 \\
 - 11 & - 10 & - 15 & + 1 & + 11 & + 6 & - 6 & + 9 & - 2 & - 7 \\
 \hline
 2 & 13 & 12 & 16 & 14 & 10 & 7 & 16 & 6 & 7
 \end{array}$$

$$\begin{array}{r}
 + 11 & - 20 & + 5 & + 7 & 1 & 11 & 11 & - 19 & 28 & - 15 \\
 + 9 & - 5 & + 1 & + 1 & + 1 & + 7 & + 12 & - 15 & - 15 & - 6 \\
 \hline
 20 & 15 & 6 & 8 & 2 & 18 & 23 & 4 & 13 & 9
 \end{array}$$

$$\begin{array}{r}
 - 21 & - 16 & - 20 & 7 & 10 & 19 & 16 & 15 & 2 & - 14 \\
 - 11 & - 7 & - 11 & + 7 & + 13 & - 9 & - 4 & - 5 & + 8 & + 13 \\
 \hline
 10 & 9 & 9 & 14 & 23 & 10 & 12 & 10 & 10 & 27
 \end{array}$$

$$\begin{array}{r}
 + 14 & + 12 & + 15 & - 7 & 13 & 13 & 3 & 18 & 19 & - 16 \\
 + 7 & + 12 & + 1 & - 5 & + 14 & + 14 & - 2 & - 4 & - 11 & - 8 \\
 \hline
 21 & 24 & 16 & 2 & 27 & 27 & 1 & 14 & 8 & 8
 \end{array}$$

$$\begin{array}{r}
 + 2 & + 1 & + 3 & - 6 & 21 & 13 & 20 & 10 & 15 & - 14 \\
 + 15 & + 7 & + 9 & - 2 & - 10 & - 2 & - 11 & + 14 & + 7 & + 6 \\
 \hline
 17 & 8 & 12 & 4 & 11 & 11 & 9 & 24 & 22 & 20
 \end{array}$$

$$\begin{array}{r}
 + 1 & + 13 & + 3 & + 5 & 29 & 19 & 14 & 20 & 12 & - 12 \\
 + 12 & + 5 & + 9 & + 6 & - 14 & - 15 & - 5 & - 9 & - 10 & + 12 \\
 \hline
 13 & 18 & 12 & 11 & 15 & 4 & 9 & 11 & 2 & 24
 \end{array}$$

$$\begin{array}{r}
 - 21 & - 3 & - 27 & - 9 & 27 & 12 & 5 & 13 & 15 & - 12 \\
 - 12 & - 2 & - 14 & - 8 & - 14 & - 7 & + 9 & - 11 & + 15 & - 4 \\
 \hline
 9 & 1 & 13 & 1 & 13 & 5 & 14 & 2 & 30 & 8
 \end{array}$$

$$\begin{array}{r}
 + 2 & + 8 & + 5 & + 11 & 10 & 14 & 7 & 10 & 21 & - 13 \\
 + 5 & + 9 & + 6 & + 11 & + 5 & - 13 & + 4 & - 1 & - 14 & + 3 \\
 \hline
 7 & 17 & 11 & 22 & 15 & 1 & 11 & 9 & 7 & 16
 \end{array}$$

$$\begin{array}{r}
 - 11 & - 25 & - 13 & + 4 & 13 & 12 & 20 & 6 & 17 & - 24 \\
 - 10 & - 11 & - 2 & + 13 & + 7 & + 4 & - 5 & + 13 & - 5 & - 10 \\
 \hline
 1 & 14 & 11 & 17 & 20 & 16 & 15 & 19 & 12 & 14
 \end{array}$$

Opérations Mixtes (F)

Complétez les exercices suivants

$$\begin{array}{r}
 \frac{10}{-9} & \frac{14}{+6} & \frac{-16}{-4} & \frac{25}{-12} & \frac{21}{-7} & \frac{4}{+6} & \frac{10}{+9} & \frac{11}{+2} & \frac{6}{+10} & \frac{2}{+10}
 \end{array}$$

$$\begin{array}{r}
 + \quad 6 \\
 + \quad 8 \\
 \hline
 - \quad 11 \\
 - \quad 2 \\
 \hline
 + \quad 12 \\
 + \quad 3 \\
 \hline
 - \quad 16 \\
 - \quad 15 \\
 \hline
 + \quad 10 \\
 + \quad 7 \\
 \hline
 - \quad 15 \\
 - \quad 17 \\
 \hline
 - \quad 4 \\
 - \quad 13 \\
 \hline
 - \quad 9 \\
 - \quad 18 \\
 \hline
 + \quad 14
 \end{array}$$

$$\begin{array}{r}
 -10 & +8 & +6 & -5 & +5 & -15 & -23 & -13 & +7 & +3 \\
 -3 & +6 & +5 & -4 & +4 & -10 & -10 & -6 & +4 & +12
 \end{array}$$

$$-\frac{11}{10} + \frac{8}{6} - \frac{29}{15} + \frac{6}{10} + \frac{2}{9} + \frac{15}{15} - \frac{12}{8} + \frac{12}{12} + \frac{6}{8} - \frac{25}{12}$$

$$-\frac{27}{15} - \frac{11}{9} + \frac{6}{6} + \frac{9}{15} - \frac{13}{12} + \frac{7}{12} + \frac{13}{1} + \frac{7}{3} - \frac{15}{3} - \frac{17}{8}$$

$$+ \begin{array}{r} 4 \\ 2 \end{array} - \begin{array}{r} 23 \\ 14 \end{array} - \begin{array}{r} 26 \\ 14 \end{array} - \begin{array}{r} 22 \\ 9 \end{array} + \begin{array}{r} 1 \\ 14 \end{array} - \begin{array}{r} 15 \\ 3 \end{array} + \begin{array}{r} 2 \\ 7 \end{array} + \begin{array}{r} 14 \\ 4 \end{array} - \begin{array}{r} 11 \\ 3 \end{array} - \begin{array}{r} 27 \\ 14 \end{array}$$

$$-\frac{17}{6} + \frac{6}{3} - \frac{14}{8} - \frac{15}{4} + \frac{4}{14} - \frac{18}{11} - \frac{14}{10} + \frac{9}{3} + \frac{10}{6} - \frac{20}{12}$$

$$= \frac{22}{9} = \frac{22}{13} = \frac{17}{5} + \frac{10}{7} = \frac{28}{13} = \frac{9}{4} = \frac{8}{2} + \frac{14}{14} = \frac{10}{13} + \frac{11}{5}$$

$$+ \frac{13}{7} - \frac{5}{2} + \frac{4}{11} - \frac{23}{10} + \frac{2}{9} - \frac{21}{13} + \frac{12}{4} + \frac{8}{9} + \frac{11}{10} - \frac{10}{1}$$

$$= \frac{5}{2} - \frac{12}{1} - \frac{24}{12} - \frac{17}{11} + \frac{9}{11} + \frac{9}{12} + \frac{1}{14} - \frac{14}{1} + \frac{1}{14} + \frac{7}{3}$$

Opérations Mixtes Solutions (F)

Complétez les exercices suivants

$\begin{array}{r} 10 \\ - 9 \\ \hline 1 \end{array}$	$\begin{array}{r} 14 \\ + 6 \\ \hline 20 \end{array}$	$\begin{array}{r} 16 \\ - 4 \\ \hline 12 \end{array}$	$\begin{array}{r} 25 \\ - 12 \\ \hline 13 \end{array}$	$\begin{array}{r} 21 \\ - 7 \\ \hline 14 \end{array}$	$\begin{array}{r} 4 \\ + 6 \\ \hline 10 \end{array}$	$\begin{array}{r} 10 \\ + 9 \\ \hline 19 \end{array}$	$\begin{array}{r} 11 \\ + 2 \\ \hline 13 \end{array}$	$\begin{array}{r} 6 \\ + 10 \\ \hline 16 \end{array}$	$\begin{array}{r} 2 \\ + 10 \\ \hline 12 \end{array}$
$\begin{array}{r} 6 \\ + 8 \\ \hline 14 \end{array}$	$\begin{array}{r} 11 \\ - 2 \\ \hline 9 \end{array}$	$\begin{array}{r} 12 \\ + 3 \\ \hline 15 \end{array}$	$\begin{array}{r} 16 \\ - 15 \\ \hline 1 \end{array}$	$\begin{array}{r} 1 \\ + 10 \\ \hline 11 \end{array}$	$\begin{array}{r} 15 \\ - 7 \\ \hline 8 \end{array}$	$\begin{array}{r} 17 \\ - 15 \\ \hline 2 \end{array}$	$\begin{array}{r} 13 \\ - 4 \\ \hline 9 \end{array}$	$\begin{array}{r} 18 \\ - 9 \\ \hline 9 \end{array}$	$\begin{array}{r} 14 \\ + 14 \\ \hline 28 \end{array}$
$\begin{array}{r} 10 \\ - 3 \\ \hline 7 \end{array}$	$\begin{array}{r} 8 \\ + 6 \\ \hline 14 \end{array}$	$\begin{array}{r} 6 \\ + 5 \\ \hline 11 \end{array}$	$\begin{array}{r} 5 \\ - 4 \\ \hline 1 \end{array}$	$\begin{array}{r} 5 \\ + 4 \\ \hline 9 \end{array}$	$\begin{array}{r} 15 \\ - 10 \\ \hline 5 \end{array}$	$\begin{array}{r} 23 \\ - 10 \\ \hline 13 \end{array}$	$\begin{array}{r} 13 \\ - 6 \\ \hline 7 \end{array}$	$\begin{array}{r} 7 \\ + 4 \\ \hline 11 \end{array}$	$\begin{array}{r} 3 \\ + 12 \\ \hline 15 \end{array}$
$\begin{array}{r} 11 \\ - 10 \\ \hline 1 \end{array}$	$\begin{array}{r} 8 \\ + 6 \\ \hline 14 \end{array}$	$\begin{array}{r} 29 \\ - 15 \\ \hline 14 \end{array}$	$\begin{array}{r} 6 \\ + 10 \\ \hline 16 \end{array}$	$\begin{array}{r} 2 \\ + 9 \\ \hline 11 \end{array}$	$\begin{array}{r} 15 \\ + 15 \\ \hline 30 \end{array}$	$\begin{array}{r} 12 \\ - 8 \\ \hline 4 \end{array}$	$\begin{array}{r} 12 \\ + 12 \\ \hline 24 \end{array}$	$\begin{array}{r} 6 \\ + 8 \\ \hline 14 \end{array}$	$\begin{array}{r} 25 \\ - 12 \\ \hline 13 \end{array}$
$\begin{array}{r} 27 \\ - 15 \\ \hline 12 \end{array}$	$\begin{array}{r} 11 \\ - 9 \\ \hline 2 \end{array}$	$\begin{array}{r} 6 \\ + 6 \\ \hline 12 \end{array}$	$\begin{array}{r} 9 \\ + 15 \\ \hline 24 \end{array}$	$\begin{array}{r} 13 \\ - 12 \\ \hline 1 \end{array}$	$\begin{array}{r} 7 \\ + 12 \\ \hline 19 \end{array}$	$\begin{array}{r} 13 \\ + 1 \\ \hline 14 \end{array}$	$\begin{array}{r} 7 \\ + 3 \\ \hline 10 \end{array}$	$\begin{array}{r} 15 \\ - 3 \\ \hline 12 \end{array}$	$\begin{array}{r} 17 \\ - 8 \\ \hline 9 \end{array}$
$\begin{array}{r} 4 \\ + 2 \\ \hline 6 \end{array}$	$\begin{array}{r} 23 \\ - 14 \\ \hline 9 \end{array}$	$\begin{array}{r} 26 \\ - 14 \\ \hline 12 \end{array}$	$\begin{array}{r} 22 \\ - 9 \\ \hline 13 \end{array}$	$\begin{array}{r} 1 \\ + 14 \\ \hline 15 \end{array}$	$\begin{array}{r} 15 \\ - 3 \\ \hline 12 \end{array}$	$\begin{array}{r} 2 \\ + 7 \\ \hline 9 \end{array}$	$\begin{array}{r} 14 \\ + 4 \\ \hline 18 \end{array}$	$\begin{array}{r} 11 \\ - 3 \\ \hline 8 \end{array}$	$\begin{array}{r} 27 \\ - 14 \\ \hline 13 \end{array}$
$\begin{array}{r} 17 \\ - 6 \\ \hline 11 \end{array}$	$\begin{array}{r} 6 \\ + 3 \\ \hline 9 \end{array}$	$\begin{array}{r} 14 \\ - 8 \\ \hline 6 \end{array}$	$\begin{array}{r} 15 \\ - 4 \\ \hline 11 \end{array}$	$\begin{array}{r} 4 \\ + 14 \\ \hline 18 \end{array}$	$\begin{array}{r} 18 \\ - 11 \\ \hline 7 \end{array}$	$\begin{array}{r} 14 \\ - 10 \\ \hline 4 \end{array}$	$\begin{array}{r} 9 \\ + 3 \\ \hline 12 \end{array}$	$\begin{array}{r} 10 \\ + 6 \\ \hline 16 \end{array}$	$\begin{array}{r} 20 \\ - 12 \\ \hline 8 \end{array}$
$\begin{array}{r} 22 \\ - 9 \\ \hline 13 \end{array}$	$\begin{array}{r} 22 \\ - 13 \\ \hline 9 \end{array}$	$\begin{array}{r} 17 \\ - 5 \\ \hline 12 \end{array}$	$\begin{array}{r} 10 \\ + 7 \\ \hline 17 \end{array}$	$\begin{array}{r} 28 \\ - 13 \\ \hline 15 \end{array}$	$\begin{array}{r} 9 \\ - 4 \\ \hline 5 \end{array}$	$\begin{array}{r} 8 \\ - 2 \\ \hline 6 \end{array}$	$\begin{array}{r} 14 \\ + 14 \\ \hline 28 \end{array}$	$\begin{array}{r} 10 \\ + 13 \\ \hline 23 \end{array}$	$\begin{array}{r} 11 \\ + 5 \\ \hline 16 \end{array}$
$\begin{array}{r} 13 \\ + 7 \\ \hline 20 \end{array}$	$\begin{array}{r} 5 \\ - 2 \\ \hline 3 \end{array}$	$\begin{array}{r} 4 \\ + 11 \\ \hline 15 \end{array}$	$\begin{array}{r} 23 \\ - 10 \\ \hline 13 \end{array}$	$\begin{array}{r} 2 \\ + 9 \\ \hline 11 \end{array}$	$\begin{array}{r} 21 \\ - 13 \\ \hline 8 \end{array}$	$\begin{array}{r} 12 \\ + 4 \\ \hline 16 \end{array}$	$\begin{array}{r} 8 \\ + 9 \\ \hline 17 \end{array}$	$\begin{array}{r} 11 \\ + 10 \\ \hline 21 \end{array}$	$\begin{array}{r} 10 \\ - 1 \\ \hline 9 \end{array}$
$\begin{array}{r} 5 \\ - 2 \\ \hline 3 \end{array}$	$\begin{array}{r} 12 \\ - 1 \\ \hline 11 \end{array}$	$\begin{array}{r} 24 \\ - 12 \\ \hline 12 \end{array}$	$\begin{array}{r} 17 \\ - 11 \\ \hline 6 \end{array}$	$\begin{array}{r} 9 \\ + 11 \\ \hline 20 \end{array}$	$\begin{array}{r} 9 \\ + 12 \\ \hline 21 \end{array}$	$\begin{array}{r} 1 \\ + 14 \\ \hline 15 \end{array}$	$\begin{array}{r} 14 \\ - 1 \\ \hline 13 \end{array}$	$\begin{array}{r} 1 \\ + 14 \\ \hline 15 \end{array}$	$\begin{array}{r} 7 \\ + 3 \\ \hline 10 \end{array}$

Opérations Mixtes (G)

Complétez les exercices suivants

$$\begin{array}{r}
 + 13 \\
 + 8 \\
 \hline
 - 13 \\
 - 11 \\
 \hline
 + 3 \\
 + 12 \\
 \hline
 4 \\
 + 8 \\
 \hline
 2 \\
 + 1 \\
 \hline
 4 \\
 + 9 \\
 \hline
 14 \\
 - 5 \\
 \hline
 2
 \end{array}$$

$$\begin{array}{r}
 -12 \\
 -10 \\
 \hline
 -2
 \end{array}
 \quad
 \begin{array}{r}
 -8 \\
 -7 \\
 \hline
 -1
 \end{array}
 \quad
 \begin{array}{r}
 +7 \\
 +3 \\
 \hline
 +10
 \end{array}
 \quad
 \begin{array}{r}
 -25 \\
 -15 \\
 \hline
 -10
 \end{array}
 \quad
 \begin{array}{r}
 -30 \\
 -15 \\
 \hline
 -15
 \end{array}
 \quad
 \begin{array}{r}
 -4 \\
 -2 \\
 \hline
 -2
 \end{array}
 \quad
 \begin{array}{r}
 -25 \\
 -15 \\
 \hline
 -10
 \end{array}
 \quad
 \begin{array}{r}
 -18 \\
 -14 \\
 \hline
 -4
 \end{array}
 \quad
 \begin{array}{r}
 +5 \\
 +4 \\
 \hline
 +9
 \end{array}
 \quad
 \begin{array}{r}
 -13 \\
 -7 \\
 \hline
 -6
 \end{array}$$

$$\begin{array}{r}
 -15 \\
 -\quad 4 \\
 \hline
 +8 \\
 \hline
 -9 \\
 +\quad 4 \\
 \hline
 +6 \\
 +13 \\
 \hline
 +14 \\
 +\quad 7 \\
 \hline
 +6 \\
 -14 \\
 \hline
 -9
 \end{array}$$

$$-\frac{12}{3} - \frac{20}{10} - \frac{28}{15} + \frac{3}{2} - \frac{9}{6} - \frac{7}{4} + \frac{10}{4} + \frac{9}{12} - \frac{22}{13} + \frac{2}{13}$$

$$-\frac{8}{5} + \frac{3}{3} + \frac{3}{1} - \frac{3}{2} + \frac{4}{9} + \frac{12}{8} - \frac{20}{14} - \frac{18}{8} + \frac{1}{15} - \frac{4}{1}$$

$$+ \frac{1}{6} - \frac{13}{8} - \frac{30}{15} + \frac{13}{15} + \frac{9}{14} - \frac{5}{1} - \frac{23}{11} - \frac{13}{9} + \frac{12}{11} + \frac{5}{12}$$

$$+ \begin{matrix} 13 \\ 10 \end{matrix} \quad - \begin{matrix} 26 \\ 13 \end{matrix} \quad + \begin{matrix} 2 \\ 4 \end{matrix} \quad + \begin{matrix} 12 \\ 9 \end{matrix} \quad - \begin{matrix} 9 \\ 7 \end{matrix} \quad - \begin{matrix} 17 \\ 3 \end{matrix} \quad - \begin{matrix} 12 \\ 7 \end{matrix} \quad - \begin{matrix} 27 \\ 15 \end{matrix} \quad - \begin{matrix} 22 \\ 11 \end{matrix} \quad + \begin{matrix} 3 \\ 13 \end{matrix}$$

$$-\frac{18}{15} - \frac{10}{1} + \frac{5}{13} - \frac{7}{1} + \frac{7}{14} - \frac{15}{1} - \frac{14}{2} - \frac{21}{11} - \frac{17}{11} + \frac{4}{5}$$

$$-\frac{14}{4} + \frac{15}{7} + \frac{7}{10} + \frac{2}{3} + \frac{2}{9} + \frac{14}{5} - \frac{18}{8} + \frac{1}{9} + \frac{12}{9} - \frac{15}{3}$$

$$+ \frac{15}{1} + \frac{6}{6} - \frac{11}{9} - \frac{27}{12} + \frac{13}{7} + \frac{11}{9} + \frac{10}{3} + \frac{11}{1} - \frac{8}{5} - \frac{27}{15}$$

Opérations Mixtes Solutions (G)

Complétez les exercices suivants

$$\begin{array}{r}
 + \frac{13}{8} & - \frac{22}{13} & - \frac{26}{11} & + \frac{14}{3} & + \frac{4}{12} & + \frac{2}{8} & + \frac{4}{1} & + \frac{4}{9} & - \frac{14}{5} & + \frac{2}{12} \\
 \hline
 21 & 9 & 15 & 17 & 16 & 10 & 5 & 13 & 9 & 14
 \end{array}$$

$$\begin{array}{r}
 - \frac{12}{10} & - \frac{8}{7} & + \frac{7}{3} & - \frac{25}{15} & - \frac{30}{15} & - \frac{4}{2} & - \frac{25}{15} & - \frac{18}{14} & + \frac{5}{4} & - \frac{13}{7} \\
 \hline
 2 & 1 & 10 & 10 & 15 & 2 & 10 & 4 & 9 & 6
 \end{array}$$

$$\begin{array}{r}
 - \frac{15}{4} & + \frac{8}{8} & - \frac{22}{9} & + \frac{1}{4} & + \frac{14}{6} & + \frac{11}{13} & + \frac{7}{14} & + \frac{13}{6} & - \frac{16}{14} & - \frac{14}{9} \\
 \hline
 11 & 16 & 13 & 5 & 20 & 24 & 21 & 19 & 2 & 5
 \end{array}$$

$$\begin{array}{r}
 - \frac{12}{3} & - \frac{20}{10} & - \frac{28}{15} & + \frac{3}{2} & - \frac{9}{6} & - \frac{7}{4} & + \frac{10}{14} & + \frac{9}{21} & - \frac{22}{13} & + \frac{2}{13} \\
 \hline
 9 & 10 & 13 & 5 & 3 & 3 & 14 & 9 & 9 & 15
 \end{array}$$

$$\begin{array}{r}
 - \frac{8}{5} & + \frac{3}{3} & + \frac{3}{1} & - \frac{3}{2} & + \frac{4}{9} & + \frac{12}{8} & - \frac{20}{14} & - \frac{18}{8} & + \frac{1}{15} & - \frac{4}{1} \\
 \hline
 3 & 6 & 4 & 1 & 13 & 20 & 6 & 10 & 16 & 3
 \end{array}$$

$$\begin{array}{r}
 + \frac{1}{6} & - \frac{13}{8} & - \frac{30}{15} & + \frac{13}{15} & + \frac{9}{14} & - \frac{5}{1} & - \frac{23}{11} & - \frac{13}{9} & + \frac{12}{11} & + \frac{5}{12} \\
 \hline
 7 & 5 & 15 & 28 & 23 & 4 & 12 & 4 & 23 & 17
 \end{array}$$

$$\begin{array}{r}
 + \frac{13}{10} & - \frac{26}{13} & + \frac{2}{4} & + \frac{12}{9} & - \frac{9}{7} & - \frac{17}{3} & - \frac{12}{7} & - \frac{27}{15} & - \frac{22}{11} & + \frac{3}{13} \\
 \hline
 23 & 13 & 6 & 21 & 2 & 14 & 5 & 12 & 11 & 16
 \end{array}$$

$$\begin{array}{r}
 - \frac{18}{15} & - \frac{10}{1} & + \frac{5}{13} & - \frac{7}{1} & + \frac{7}{14} & - \frac{15}{1} & - \frac{14}{2} & - \frac{21}{11} & - \frac{17}{11} & + \frac{4}{5} \\
 \hline
 3 & 9 & 18 & 6 & 21 & 14 & 12 & 10 & 6 & 9
 \end{array}$$

$$\begin{array}{r}
 - \frac{14}{4} & + \frac{15}{7} & + \frac{7}{10} & + \frac{2}{3} & + \frac{2}{9} & + \frac{14}{5} & - \frac{18}{8} & + \frac{1}{9} & + \frac{12}{9} & - \frac{15}{3} \\
 \hline
 10 & 22 & 17 & 5 & 11 & 19 & 10 & 10 & 21 & 12
 \end{array}$$

$$\begin{array}{r}
 + \frac{15}{1} & + \frac{6}{6} & - \frac{11}{9} & - \frac{27}{12} & + \frac{13}{7} & + \frac{11}{9} & + \frac{10}{3} & + \frac{11}{1} & - \frac{8}{5} & - \frac{27}{15} \\
 \hline
 16 & 12 & 2 & 15 & 20 & 20 & 13 & 12 & 3 & 12
 \end{array}$$

Opérations Mixtes (H)

Complétez les exercices suivants

$$\begin{array}{r}
 -14 \\
 -11 \\
 \hline
 +13 \\
 +7 \\
 \hline
 -6 \\
 -15 \\
 \hline
 -17 \\
 -2 \\
 \hline
 +12 \\
 +8 \\
 \hline
 -25 \\
 -12 \\
 \hline
 +5 \\
 +4 \\
 \hline
 +7 \\
 +12 \\
 \hline
 +14
 \end{array}$$

$$\begin{array}{r}
 + \quad 3 \\
 + \quad 9 \\
 \hline
 + \quad 3 \\
 - 11 \\
 \hline
 + \quad 1 \\
 + \quad 2 \\
 \hline
 + \quad 2 \\
 + 10 \\
 \hline
 + \quad 12 \\
 + \quad 9 \\
 \hline
 + \quad 13 \\
 + 13 \\
 \hline
 + \quad 9 \\
 + 14 \\
 \hline
 + \quad 4 \\
 + 12 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 -\frac{6}{3} \quad -\frac{14}{1} \quad -\frac{29}{15} \quad -\frac{22}{15} \quad +\frac{8}{15} \quad +\frac{7}{6} \quad -\frac{21}{11} \quad +\frac{6}{4} \quad -\frac{20}{13} \quad -\frac{22}{7}
 \end{array}$$

$$\begin{array}{r}
 -\frac{13}{2} + \frac{7}{6} - \frac{21}{15} - \frac{19}{13} - \frac{29}{14} + \frac{8}{5} + \frac{10}{15} + \frac{7}{5} - \frac{14}{9} - \frac{5}{1}
 \end{array}$$

$$\begin{array}{r}
 -\frac{7}{4} & -\frac{13}{6} & +\frac{14}{11} & +\frac{11}{2} & +\frac{1}{13} & +\frac{12}{5} & -\frac{17}{5} & +\frac{5}{7} & +\frac{14}{10} & -\frac{13}{10}
 \end{array}$$

$$+ \begin{array}{r} 4 \\ 3 \end{array} + \begin{array}{r} 7 \\ 14 \end{array} + \begin{array}{r} 2 \\ 14 \end{array} - \begin{array}{r} 14 \\ 11 \end{array} + \begin{array}{r} 12 \\ 3 \end{array} - \begin{array}{r} 9 \\ 1 \end{array} - \begin{array}{r} 21 \\ 7 \end{array} - \begin{array}{r} 21 \\ 13 \end{array} + \begin{array}{r} 12 \\ 1 \end{array} + \begin{array}{r} 14 \\ 12 \end{array}$$

$$+ \begin{matrix} 5 \\ 15 \end{matrix} + \begin{matrix} 11 \\ 3 \end{matrix} + \begin{matrix} 9 \\ 6 \end{matrix} - \begin{matrix} 6 \\ 5 \end{matrix} - \begin{matrix} 14 \\ 6 \end{matrix} - \begin{matrix} 25 \\ 10 \end{matrix} - \begin{matrix} 11 \\ 4 \end{matrix} - \begin{matrix} 19 \\ 12 \end{matrix} + \begin{matrix} 11 \\ 6 \end{matrix} + \begin{matrix} 8 \\ 12 \end{matrix}$$

$$-\frac{16}{8} - \frac{20}{10} + \frac{11}{2} + \frac{4}{7} - \frac{17}{5} + \frac{14}{8} - \frac{19}{12} - \frac{15}{14} + \frac{13}{8} + \frac{5}{3}$$

$$+ \begin{array}{r} 13 \\ 3 \end{array} + \begin{array}{r} 2 \\ 14 \end{array} - \begin{array}{r} 21 \\ 11 \end{array} - \begin{array}{r} 10 \\ 9 \end{array} + \begin{array}{r} 15 \\ 15 \end{array} + \begin{array}{r} 13 \\ 14 \end{array} - \begin{array}{r} 15 \\ 9 \end{array} + \begin{array}{r} 14 \\ 12 \end{array} - \begin{array}{r} 16 \\ 1 \end{array} - \begin{array}{r} 10 \\ 4 \end{array}$$

$$+ \frac{4}{2} + \frac{9}{15} + \frac{11}{1} + \frac{1}{3} - \frac{13}{1} + \frac{2}{5} + \frac{9}{9} + \frac{5}{7} + \frac{12}{9} + \frac{1}{3}$$

Opérations Mixtes Solutions (H)

Complétez les exercices suivants

$$\begin{array}{r} -14 \\ -11 \\ \hline 3 \end{array} \quad \begin{array}{r} +13 \\ +7 \\ \hline 20 \end{array} \quad \begin{array}{r} -11 \\ -6 \\ \hline 5 \end{array} \quad \begin{array}{r} -23 \\ -15 \\ \hline 8 \end{array} \quad \begin{array}{r} -17 \\ -2 \\ \hline 15 \end{array} \quad \begin{array}{r} +12 \\ +8 \\ \hline 20 \end{array} \quad \begin{array}{r} -25 \\ -12 \\ \hline 13 \end{array} \quad \begin{array}{r} +5 \\ +4 \\ \hline 9 \end{array} \quad \begin{array}{r} +7 \\ +12 \\ \hline 19 \end{array} \quad \begin{array}{r} +14 \\ +14 \\ \hline 28 \end{array}$$
$$\begin{array}{r} +3 \\ +9 \\ \hline 12 \end{array} \quad \begin{array}{r} +9 \\ +3 \\ \hline 12 \end{array} \quad \begin{array}{r} -26 \\ -11 \\ \hline 15 \end{array} \quad \begin{array}{r} +6 \\ +1 \\ \hline 7 \end{array} \quad \begin{array}{r} +2 \\ +2 \\ \hline 4 \end{array} \quad \begin{array}{r} +12 \\ +10 \\ \hline 22 \end{array} \quad \begin{array}{r} +13 \\ +9 \\ \hline 22 \end{array} \quad \begin{array}{r} +9 \\ +13 \\ \hline 22 \end{array} \quad \begin{array}{r} +4 \\ +14 \\ \hline 18 \end{array} \quad \begin{array}{r} +1 \\ +12 \\ \hline 13 \end{array}$$
$$\begin{array}{r} -6 \\ -3 \\ \hline 3 \end{array} \quad \begin{array}{r} -14 \\ -1 \\ \hline 13 \end{array} \quad \begin{array}{r} -29 \\ -15 \\ \hline 14 \end{array} \quad \begin{array}{r} -22 \\ -15 \\ \hline 7 \end{array} \quad \begin{array}{r} +8 \\ +15 \\ \hline 23 \end{array} \quad \begin{array}{r} +7 \\ +6 \\ \hline 13 \end{array} \quad \begin{array}{r} -21 \\ -11 \\ \hline 10 \end{array} \quad \begin{array}{r} +6 \\ +4 \\ \hline 10 \end{array} \quad \begin{array}{r} -20 \\ -13 \\ \hline 7 \end{array} \quad \begin{array}{r} -22 \\ -7 \\ \hline 15 \end{array}$$
$$\begin{array}{r} -13 \\ -2 \\ \hline 11 \end{array} \quad \begin{array}{r} +7 \\ +6 \\ \hline 13 \end{array} \quad \begin{array}{r} -21 \\ -15 \\ \hline 6 \end{array} \quad \begin{array}{r} -19 \\ -13 \\ \hline 6 \end{array} \quad \begin{array}{r} -29 \\ -14 \\ \hline 15 \end{array} \quad \begin{array}{r} +8 \\ +5 \\ \hline 13 \end{array} \quad \begin{array}{r} +10 \\ +15 \\ \hline 25 \end{array} \quad \begin{array}{r} +7 \\ +5 \\ \hline 12 \end{array} \quad \begin{array}{r} -14 \\ -9 \\ \hline 5 \end{array} \quad \begin{array}{r} -5 \\ -1 \\ \hline 4 \end{array}$$
$$\begin{array}{r} -7 \\ -4 \\ \hline 3 \end{array} \quad \begin{array}{r} -13 \\ -6 \\ \hline 7 \end{array} \quad \begin{array}{r} +14 \\ +11 \\ \hline 25 \end{array} \quad \begin{array}{r} +11 \\ +2 \\ \hline 13 \end{array} \quad \begin{array}{r} +1 \\ +13 \\ \hline 14 \end{array} \quad \begin{array}{r} +12 \\ +5 \\ \hline 17 \end{array} \quad \begin{array}{r} -17 \\ -5 \\ \hline 12 \end{array} \quad \begin{array}{r} +5 \\ +7 \\ \hline 12 \end{array} \quad \begin{array}{r} +14 \\ +10 \\ \hline 24 \end{array} \quad \begin{array}{r} -13 \\ -10 \\ \hline 3 \end{array}$$
$$\begin{array}{r} +4 \\ +3 \\ \hline 7 \end{array} \quad \begin{array}{r} +7 \\ +14 \\ \hline 21 \end{array} \quad \begin{array}{r} +2 \\ +14 \\ \hline 16 \end{array} \quad \begin{array}{r} -14 \\ -11 \\ \hline 3 \end{array} \quad \begin{array}{r} +12 \\ +3 \\ \hline 15 \end{array} \quad \begin{array}{r} +9 \\ +1 \\ \hline 8 \end{array} \quad \begin{array}{r} -21 \\ -7 \\ \hline 14 \end{array} \quad \begin{array}{r} +21 \\ +13 \\ \hline 8 \end{array} \quad \begin{array}{r} +12 \\ +1 \\ \hline 13 \end{array} \quad \begin{array}{r} +14 \\ +12 \\ \hline 26 \end{array}$$
$$\begin{array}{r} +5 \\ +15 \\ \hline 20 \end{array} \quad \begin{array}{r} +11 \\ +3 \\ \hline 14 \end{array} \quad \begin{array}{r} +9 \\ +6 \\ \hline 15 \end{array} \quad \begin{array}{r} -6 \\ -5 \\ \hline 1 \end{array} \quad \begin{array}{r} -14 \\ -6 \\ \hline 8 \end{array} \quad \begin{array}{r} +25 \\ +10 \\ \hline 15 \end{array} \quad \begin{array}{r} +11 \\ +4 \\ \hline 7 \end{array} \quad \begin{array}{r} -19 \\ -12 \\ \hline 7 \end{array} \quad \begin{array}{r} +11 \\ +6 \\ \hline 17 \end{array} \quad \begin{array}{r} +8 \\ +12 \\ \hline 20 \end{array}$$
$$\begin{array}{r} -16 \\ -8 \\ \hline 8 \end{array} \quad \begin{array}{r} -20 \\ -10 \\ \hline 10 \end{array} \quad \begin{array}{r} +11 \\ +2 \\ \hline 13 \end{array} \quad \begin{array}{r} +4 \\ +7 \\ \hline 11 \end{array} \quad \begin{array}{r} -17 \\ -5 \\ \hline 12 \end{array} \quad \begin{array}{r} +14 \\ +8 \\ \hline 22 \end{array} \quad \begin{array}{r} -19 \\ -12 \\ \hline 7 \end{array} \quad \begin{array}{r} +15 \\ +14 \\ \hline 1 \end{array} \quad \begin{array}{r} +13 \\ +8 \\ \hline 21 \end{array} \quad \begin{array}{r} +5 \\ +3 \\ \hline 8 \end{array}$$
$$\begin{array}{r} +13 \\ +3 \\ \hline 16 \end{array} \quad \begin{array}{r} +2 \\ +14 \\ \hline 16 \end{array} \quad \begin{array}{r} -21 \\ -11 \\ \hline 10 \end{array} \quad \begin{array}{r} -10 \\ -9 \\ \hline 1 \end{array} \quad \begin{array}{r} +15 \\ +15 \\ \hline 30 \end{array} \quad \begin{array}{r} +13 \\ +14 \\ \hline 27 \end{array} \quad \begin{array}{r} +15 \\ +9 \\ \hline 6 \end{array} \quad \begin{array}{r} +14 \\ +12 \\ \hline 26 \end{array} \quad \begin{array}{r} +16 \\ +1 \\ \hline 15 \end{array} \quad \begin{array}{r} +10 \\ +4 \\ \hline 6 \end{array}$$
$$\begin{array}{r} +4 \\ +2 \\ \hline 6 \end{array} \quad \begin{array}{r} +9 \\ +15 \\ \hline 24 \end{array} \quad \begin{array}{r} +11 \\ +1 \\ \hline 12 \end{array} \quad \begin{array}{r} +1 \\ +3 \\ \hline 4 \end{array} \quad \begin{array}{r} -13 \\ -1 \\ \hline 12 \end{array} \quad \begin{array}{r} +2 \\ +5 \\ \hline 7 \end{array} \quad \begin{array}{r} +9 \\ +9 \\ \hline 18 \end{array} \quad \begin{array}{r} +5 \\ +7 \\ \hline 12 \end{array} \quad \begin{array}{r} +12 \\ +9 \\ \hline 21 \end{array} \quad \begin{array}{r} +1 \\ +3 \\ \hline 4 \end{array}$$

Opérations Mixtes (I)

Complétez les exercices suivants

$$\begin{array}{r} 8 \\ + 13 \\ \hline \end{array} \quad \begin{array}{r} 16 \\ - 9 \\ \hline \end{array} \quad \begin{array}{r} 12 \\ + 5 \\ \hline \end{array} \quad \begin{array}{r} 8 \\ + 13 \\ \hline \end{array} \quad \begin{array}{r} 18 \\ - 15 \\ \hline \end{array} \quad \begin{array}{r} 13 \\ + 7 \\ \hline \end{array} \quad \begin{array}{r} 2 \\ - 1 \\ \hline \end{array} \quad \begin{array}{r} 4 \\ + 9 \\ \hline \end{array} \quad \begin{array}{r} 1 \\ + 1 \\ \hline \end{array} \quad \begin{array}{r} 18 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r}
 + 14 \\
 + 11 \\
 \hline
\end{array}
 \quad
 \begin{array}{r}
 + 1 \\
 + 7 \\
 \hline
\end{array}
 \quad
 \begin{array}{r}
 + 2 \\
 + 1 \\
 \hline
\end{array}
 \quad
 \begin{array}{r}
 + 13 \\
 + 13 \\
 \hline
\end{array}
 \quad
 \begin{array}{r}
 + 7 \\
 + 13 \\
 \hline
\end{array}
 \quad
 \begin{array}{r}
 + 6 \\
 + 15 \\
 \hline
\end{array}
 \quad
 \begin{array}{r}
 + 15 \\
 + 9 \\
 \hline
\end{array}
 \quad
 \begin{array}{r}
 - 20 \\
 - 8 \\
 \hline
\end{array}
 \quad
 \begin{array}{r}
 - 23 \\
 - 15 \\
 \hline
\end{array}
 \quad
 \begin{array}{r}
 - 13 \\
 - 10 \\
 \hline
\end{array}$$

$$\begin{array}{r}
 -24 \\
 -11 \\
 \hline
 -13
 \end{array}
 \quad
 \begin{array}{r}
 +6 \\
 -10 \\
 \hline
 +12
 \end{array}
 \quad
 \begin{array}{r}
 +2 \\
 +3 \\
 \hline
 +5
 \end{array}
 \quad
 \begin{array}{r}
 +10 \\
 +10 \\
 \hline
 +11
 \end{array}
 \quad
 \begin{array}{r}
 -8 \\
 -5 \\
 \hline
 -4
 \end{array}$$

$$-\frac{18}{12} - \frac{11}{9} - \frac{17}{15} - \frac{22}{11} - \frac{16}{5} + \frac{8}{11} - \frac{15}{14} + \frac{9}{6} + \frac{7}{11} - \frac{20}{7}$$

$$-\frac{12}{9} + \frac{6}{3} + \frac{10}{5} + \frac{6}{1} - \frac{17}{9} + \frac{5}{8} - \frac{24}{9} + \frac{6}{4} - \frac{23}{12} - \frac{17}{12}$$

$$+ \frac{9}{10} - \frac{16}{2} + \frac{15}{2} - \frac{17}{8} + \frac{6}{9} - \frac{10}{8} + \frac{13}{9} - \frac{21}{6} + \frac{3}{3} - \frac{26}{13}$$

$$+ \frac{11}{2} - \frac{18}{14} + \frac{6}{12} - \frac{24}{9} + \frac{15}{13} + \frac{8}{2} + \frac{2}{13} - \frac{16}{1} - \frac{19}{12} + \frac{11}{11}$$

$$-\frac{18}{4} - \frac{11}{10} + \frac{1}{4} - \frac{22}{12} + \frac{10}{4} + \frac{8}{2} - \frac{23}{15} - \frac{12}{10} + \frac{6}{6} + \frac{14}{3}$$

$$+ \frac{2}{13} + \frac{15}{14} - \frac{14}{10} - \frac{10}{6} - \frac{9}{7} + \frac{5}{12} + \frac{3}{9} - \frac{23}{8} - \frac{17}{3} + \frac{2}{10}$$

$$+ \frac{2}{15} + \frac{11}{6} + \frac{13}{2} + \frac{4}{8} + \frac{14}{10} - \frac{26}{15} - \frac{22}{11} + \frac{14}{12} - \frac{18}{8} + \frac{14}{12}$$

Opérations Mixtes Solutions (I)

Complétez les exercices suivants

$$\begin{array}{r}
 8 & -16 & +12 & +8 & -18 & +13 & -2 & +4 & +1 & -18 \\
 +13 & -9 & +5 & +13 & -15 & +7 & -1 & +9 & +1 & -9 \\
 \hline
 21 & 7 & 17 & 21 & 3 & 20 & 1 & 13 & 2 & 9
 \end{array}$$

$$\begin{array}{r}
 14 & +1 & +2 & +13 & 7 & 6 & +15 & -20 & -23 & -13 \\
 +11 & +7 & +1 & +13 & +13 & +15 & +9 & -8 & -15 & -10 \\
 \hline
 25 & 8 & 3 & 26 & 20 & 21 & 24 & 12 & 8 & 3
 \end{array}$$

$$\begin{array}{r}
 24 & -24 & +6 & -11 & 1 & 2 & +10 & +11 & 8 & 6 \\
 -11 & -13 & +8 & -10 & +12 & +3 & +5 & +10 & 5 & 4 \\
 \hline
 13 & 11 & 14 & 1 & 13 & 5 & 15 & 21 & 3 & 2
 \end{array}$$

$$\begin{array}{r}
 18 & -11 & -17 & -22 & 16 & 8 & -15 & 9 & 7 & 20 \\
 -12 & -9 & -15 & -11 & -5 & +11 & -14 & +6 & +11 & -7 \\
 \hline
 6 & 2 & 2 & 11 & 11 & 19 & 1 & 15 & 18 & 13
 \end{array}$$

$$\begin{array}{r}
 12 & +6 & +10 & +6 & -17 & 5 & -24 & 6 & 23 & 17 \\
 -9 & +3 & +5 & +1 & -9 & +8 & -9 & +4 & -12 & -12 \\
 \hline
 3 & 9 & 15 & 7 & 8 & 13 & 15 & 10 & 11 & 5
 \end{array}$$

$$\begin{array}{r}
 9 & -16 & +15 & -17 & 6 & -10 & +13 & 21 & 3 & 26 \\
 +10 & -2 & +2 & -8 & +9 & -8 & +9 & -6 & +3 & -13 \\
 \hline
 19 & 14 & 17 & 9 & 15 & 2 & 22 & 15 & 6 & 13
 \end{array}$$

$$\begin{array}{r}
 11 & -18 & +6 & -24 & 15 & 8 & -2 & 16 & 19 & 11 \\
 +2 & -14 & +12 & -9 & +13 & +2 & +13 & -1 & -12 & +11 \\
 \hline
 13 & 4 & 18 & 15 & 28 & 10 & 15 & 15 & 7 & 22
 \end{array}$$

$$\begin{array}{r}
 18 & -11 & +1 & -22 & 10 & 8 & -23 & 12 & 6 & 14 \\
 -4 & -10 & +4 & -12 & +4 & +2 & -15 & -10 & +6 & +3 \\
 \hline
 14 & 1 & 5 & 10 & 14 & 10 & 8 & 2 & 12 & 17
 \end{array}$$

$$\begin{array}{r}
 2 & +15 & -14 & -10 & 9 & 5 & 3 & -23 & 17 & 2 \\
 +13 & +14 & -10 & -6 & -7 & +12 & +9 & -8 & -3 & +10 \\
 \hline
 15 & 29 & 4 & 4 & 2 & 17 & 12 & 15 & 14 & 12
 \end{array}$$

$$\begin{array}{r}
 2 & +11 & +13 & +4 & +14 & -26 & -22 & +14 & -8 & +14 \\
 +15 & +6 & +2 & +8 & +10 & -15 & -11 & +12 & 10 & +12 \\
 \hline
 17 & 17 & 15 & 12 & 24 & 11 & 11 & 26 & 10 & 26
 \end{array}$$

Opérations Mixtes (J)

Complétez les exercices suivants

$$\begin{array}{r}
 + 3 \\
 + 15 \\
 \hline
 - 2 \\
 + 9 \\
 + 15 \\
 \hline
 - 8 \\
 - 13 \\
 + 5 \\
 + 10 \\
 - 15 \\
 - 6 \\
 - 3
 \end{array}$$

$$\begin{array}{r}
 + 4 \\
 + 13 \\
 \hline
 - 9 \\
 - 2 \\
 \hline
 + 12 \\
 + 15 \\
 \hline
 - 7 \\
 - 2 \\
 \hline
 - 18 \\
 - 12 \\
 \hline
 - 17 \\
 - 5 \\
 \hline
 + 8 \\
 + 5 \\
 \hline
 + 5 \\
 + 5 \\
 \hline
 + 15 \\
 + 10 \\
 \hline
 - 14 \\
 - 11
 \end{array}$$

$$\begin{array}{r}
 + \frac{6}{11} \\
 + \frac{1}{14} \\
 - \frac{23}{13} \\
 - \frac{22}{9} \\
 + \frac{6}{8} \\
 - \frac{14}{4} \\
 + \frac{13}{1} \\
 - \frac{14}{8} \\
 - \frac{12}{4} \\
 - \frac{11}{8}
 \end{array}$$

$$\begin{array}{r}
 -25 \\
 -10 \\
 \hline
 -15
 \end{array}
 \quad
 \begin{array}{r}
 -6 \\
 -2 \\
 \hline
 -8
 \end{array}
 \quad
 \begin{array}{r}
 -21 \\
 -2 \\
 \hline
 -23
 \end{array}
 \quad
 \begin{array}{r}
 -13 \\
 -2 \\
 \hline
 -15
 \end{array}
 \quad
 \begin{array}{r}
 +2 \\
 +10 \\
 \hline
 +12
 \end{array}
 \quad
 \begin{array}{r}
 +8 \\
 +6 \\
 \hline
 +14
 \end{array}
 \quad
 \begin{array}{r}
 +9 \\
 +8 \\
 \hline
 +17
 \end{array}
 \quad
 \begin{array}{r}
 +12 \\
 +3 \\
 \hline
 +15
 \end{array}
 \quad
 \begin{array}{r}
 -23 \\
 -15 \\
 \hline
 -8
 \end{array}
 \quad
 \begin{array}{r}
 +3 \\
 +14 \\
 \hline
 +17
 \end{array}$$

$$\begin{array}{r}
 + 15 \\
 + 6 \\
 \hline
 - 27 \\
 - 12 \\
 \hline
 - 6 \\
 + 15 \\
 \hline
 + 9 \\
 + 12 \\
 \hline
 + 13 \\
 + 11 \\
 \hline
 - 11 \\
 - 7 \\
 \hline
 + 1 \\
 + 6 \\
 \hline
 - 12 \\
 - 11 \\
 \hline
 - 25 \\
 - 10 \\
 \hline
 \end{array}$$

$$- \frac{28}{14} + \frac{7}{8} - \frac{30}{15} - \frac{9}{8} - \frac{16}{11} - \frac{18}{15} + \frac{3}{9} + \frac{2}{6} - \frac{12}{10} - \frac{13}{1}$$

$$-\frac{13}{1} + \frac{5}{9} + \frac{6}{15} - \frac{29}{15} - \frac{20}{11} - \frac{16}{7} + \frac{10}{2} - \frac{5}{3} + \frac{7}{10} - \frac{20}{9}$$

$$-\frac{9}{8} - \frac{27}{14} + \frac{8}{12} - \frac{6}{1} + \frac{4}{8} - \frac{23}{10} + \frac{3}{11} + \frac{3}{8} - \frac{2}{1} + \frac{8}{13}$$

$$+ \begin{matrix} 13 \\ 14 \end{matrix} \quad + \begin{matrix} 8 \\ 13 \end{matrix} \quad + \begin{matrix} 9 \\ 5 \end{matrix} \quad - \begin{matrix} 8 \\ 4 \end{matrix} \quad + \begin{matrix} 13 \\ 5 \end{matrix} \quad + \begin{matrix} 9 \\ 4 \end{matrix} \quad + \begin{matrix} 9 \\ 1 \end{matrix} \quad - \begin{matrix} 14 \\ 3 \end{matrix} \quad - \begin{matrix} 15 \\ 14 \end{matrix} \quad + \begin{matrix} 10 \\ 15 \end{matrix}$$

$$-\frac{15}{9} + \frac{13}{7} - \frac{19}{7} + \frac{14}{5} + \frac{8}{6} + \frac{14}{1} + \frac{9}{13} - \frac{26}{14} + \frac{2}{7} - \frac{24}{9}$$

Opérations Mixtes Solutions (J)

Complétez les exercices suivants

$$\begin{array}{r} 3 \\ + 15 \\ \hline 18 \end{array} \quad \begin{array}{r} 7 \\ - 2 \\ \hline 5 \end{array} \quad \begin{array}{r} 3 \\ + 9 \\ \hline 12 \end{array} \quad \begin{array}{r} 6 \\ + 15 \\ \hline 21 \end{array} \quad \begin{array}{r} 10 \\ - 8 \\ \hline 2 \end{array} \quad \begin{array}{r} 18 \\ - 13 \\ \hline 5 \end{array} \quad \begin{array}{r} 10 \\ + 5 \\ \hline 15 \end{array} \quad \begin{array}{r} 29 \\ - 15 \\ \hline 14 \end{array} \quad \begin{array}{r} 20 \\ - 6 \\ \hline 14 \end{array} \quad \begin{array}{r} 10 \\ - 3 \\ \hline 7 \end{array}$$
$$\begin{array}{r} 4 \\ + 13 \\ \hline 17 \end{array} \quad \begin{array}{r} 9 \\ - 2 \\ \hline 7 \end{array} \quad \begin{array}{r} 12 \\ + 15 \\ \hline 27 \end{array} \quad \begin{array}{r} 7 \\ - 2 \\ \hline 5 \end{array} \quad \begin{array}{r} 18 \\ - 12 \\ \hline 6 \end{array} \quad \begin{array}{r} 17 \\ - 5 \\ \hline 12 \end{array} \quad \begin{array}{r} 8 \\ + 5 \\ \hline 13 \end{array} \quad \begin{array}{r} 5 \\ + 5 \\ \hline 10 \end{array} \quad \begin{array}{r} 15 \\ + 10 \\ \hline 25 \end{array} \quad \begin{array}{r} 14 \\ - 11 \\ \hline 3 \end{array}$$
$$\begin{array}{r} 6 \\ + 11 \\ \hline 17 \end{array} \quad \begin{array}{r} 1 \\ + 14 \\ \hline 15 \end{array} \quad \begin{array}{r} 23 \\ - 13 \\ \hline 10 \end{array} \quad \begin{array}{r} 22 \\ - 9 \\ \hline 13 \end{array} \quad \begin{array}{r} 6 \\ + 8 \\ \hline 14 \end{array} \quad \begin{array}{r} 14 \\ - 4 \\ \hline 10 \end{array} \quad \begin{array}{r} 13 \\ + 1 \\ \hline 14 \end{array} \quad \begin{array}{r} 14 \\ - 8 \\ \hline 6 \end{array} \quad \begin{array}{r} 12 \\ - 4 \\ \hline 8 \end{array} \quad \begin{array}{r} 11 \\ - 8 \\ \hline 3 \end{array}$$
$$\begin{array}{r} 25 \\ - 10 \\ \hline 15 \end{array} \quad \begin{array}{r} 6 \\ - 2 \\ \hline 4 \end{array} \quad \begin{array}{r} 21 \\ - 8 \\ \hline 13 \end{array} \quad \begin{array}{r} 13 \\ - 2 \\ \hline 11 \end{array} \quad \begin{array}{r} 2 \\ + 10 \\ \hline 12 \end{array} \quad \begin{array}{r} 8 \\ + 6 \\ \hline 14 \end{array} \quad \begin{array}{r} 9 \\ + 8 \\ \hline 17 \end{array} \quad \begin{array}{r} 12 \\ + 3 \\ \hline 15 \end{array} \quad \begin{array}{r} 23 \\ - 15 \\ \hline 8 \end{array} \quad \begin{array}{r} 3 \\ + 14 \\ \hline 17 \end{array}$$
$$\begin{array}{r} 15 \\ + 6 \\ \hline 21 \end{array} \quad \begin{array}{r} 27 \\ - 12 \\ \hline 15 \end{array} \quad \begin{array}{r} 8 \\ - 6 \\ \hline 2 \end{array} \quad \begin{array}{r} 6 \\ + 15 \\ \hline 21 \end{array} \quad \begin{array}{r} 9 \\ + 12 \\ \hline 21 \end{array} \quad \begin{array}{r} 13 \\ + 11 \\ \hline 24 \end{array} \quad \begin{array}{r} 11 \\ - 7 \\ \hline 4 \end{array} \quad \begin{array}{r} 1 \\ + 6 \\ \hline 7 \end{array} \quad \begin{array}{r} 12 \\ - 11 \\ \hline 1 \end{array} \quad \begin{array}{r} 25 \\ - 10 \\ \hline 15 \end{array}$$
$$\begin{array}{r} 28 \\ - 14 \\ \hline 14 \end{array} \quad \begin{array}{r} 7 \\ + 8 \\ \hline 15 \end{array} \quad \begin{array}{r} 30 \\ - 15 \\ \hline 15 \end{array} \quad \begin{array}{r} 9 \\ - 8 \\ \hline 1 \end{array} \quad \begin{array}{r} 16 \\ - 11 \\ \hline 5 \end{array} \quad \begin{array}{r} 18 \\ - 15 \\ \hline 3 \end{array} \quad \begin{array}{r} 3 \\ + 9 \\ \hline 12 \end{array} \quad \begin{array}{r} 2 \\ + 6 \\ \hline 8 \end{array} \quad \begin{array}{r} 12 \\ - 10 \\ \hline 2 \end{array} \quad \begin{array}{r} 13 \\ - 1 \\ \hline 12 \end{array}$$
$$\begin{array}{r} 13 \\ - 1 \\ \hline 12 \end{array} \quad \begin{array}{r} 5 \\ + 9 \\ \hline 14 \end{array} \quad \begin{array}{r} 6 \\ + 15 \\ \hline 21 \end{array} \quad \begin{array}{r} 29 \\ - 15 \\ \hline 14 \end{array} \quad \begin{array}{r} 20 \\ - 11 \\ \hline 9 \end{array} \quad \begin{array}{r} 16 \\ - 7 \\ \hline 9 \end{array} \quad \begin{array}{r} 10 \\ + 2 \\ \hline 12 \end{array} \quad \begin{array}{r} 5 \\ - 3 \\ \hline 2 \end{array} \quad \begin{array}{r} 7 \\ + 10 \\ \hline 17 \end{array} \quad \begin{array}{r} 20 \\ - 9 \\ \hline 11 \end{array}$$
$$\begin{array}{r} 9 \\ - 8 \\ \hline 1 \end{array} \quad \begin{array}{r} 27 \\ - 14 \\ \hline 13 \end{array} \quad \begin{array}{r} 8 \\ + 12 \\ \hline 20 \end{array} \quad \begin{array}{r} 6 \\ - 1 \\ \hline 5 \end{array} \quad \begin{array}{r} 4 \\ + 8 \\ \hline 12 \end{array} \quad \begin{array}{r} 23 \\ - 10 \\ \hline 13 \end{array} \quad \begin{array}{r} 3 \\ + 11 \\ \hline 14 \end{array} \quad \begin{array}{r} 3 \\ + 8 \\ \hline 11 \end{array} \quad \begin{array}{r} 2 \\ - 1 \\ \hline 1 \end{array} \quad \begin{array}{r} 8 \\ + 13 \\ \hline 21 \end{array}$$
$$\begin{array}{r} 13 \\ + 14 \\ \hline 27 \end{array} \quad \begin{array}{r} 8 \\ + 13 \\ \hline 21 \end{array} \quad \begin{array}{r} 9 \\ + 5 \\ \hline 14 \end{array} \quad \begin{array}{r} 8 \\ - 4 \\ \hline 4 \end{array} \quad \begin{array}{r} 13 \\ + 5 \\ \hline 18 \end{array} \quad \begin{array}{r} 9 \\ + 4 \\ \hline 13 \end{array} \quad \begin{array}{r} 9 \\ + 1 \\ \hline 10 \end{array} \quad \begin{array}{r} 14 \\ - 3 \\ \hline 11 \end{array} \quad \begin{array}{r} 15 \\ - 14 \\ \hline 1 \end{array} \quad \begin{array}{r} 10 \\ + 15 \\ \hline 25 \end{array}$$
$$\begin{array}{r} 15 \\ - 9 \\ \hline 6 \end{array} \quad \begin{array}{r} 13 \\ + 7 \\ \hline 20 \end{array} \quad \begin{array}{r} 19 \\ - 7 \\ \hline 12 \end{array} \quad \begin{array}{r} 14 \\ + 5 \\ \hline 19 \end{array} \quad \begin{array}{r} 8 \\ + 6 \\ \hline 14 \end{array} \quad \begin{array}{r} 14 \\ + 1 \\ \hline 15 \end{array} \quad \begin{array}{r} 9 \\ + 13 \\ \hline 22 \end{array} \quad \begin{array}{r} 26 \\ - 14 \\ \hline 12 \end{array} \quad \begin{array}{r} 2 \\ + 7 \\ \hline 9 \end{array} \quad \begin{array}{r} 24 \\ - 9 \\ \hline 15 \end{array}$$