

## Opérations Mixtes (A)

## Complétez les exercices suivants

$$\begin{array}{r}
 + \frac{5}{3} \\
 + \frac{2}{3} \\
 - \frac{7}{2} \\
 + \frac{4}{1} \\
 - \frac{7}{2} \\
 - \frac{6}{1} \\
 - \frac{4}{1} \\
 + \frac{4}{3} \\
 + \frac{1}{2} \\
 + \frac{1}{3}
 \end{array}$$

$$\begin{array}{r}
 + \frac{1}{2} \\
 - \frac{6}{1} \\
 - \frac{7}{5} \\
 + \frac{3}{5} \\
 - \frac{8}{5} \\
 + \frac{3}{1} \\
 - \frac{2}{1} \\
 + \frac{2}{3} \\
 - \frac{4}{3} \\
 - \frac{7}{2}
 \end{array}$$

$$-\frac{6}{4} + \frac{2}{2} + \frac{3}{1} - \frac{9}{4} + \frac{4}{4} - \frac{4}{2} + \frac{4}{5} + \frac{4}{5} + \frac{4}{2} + \frac{1}{1}$$

$$+ \begin{array}{r} 5 \\ 3 \end{array} - \begin{array}{r} 3 \\ 2 \end{array} + \begin{array}{r} 1 \\ 2 \end{array} - \begin{array}{r} 6 \\ 5 \end{array} + \begin{array}{r} 1 \\ 1 \end{array} - \begin{array}{r} 9 \\ 4 \end{array} + \begin{array}{r} 1 \\ 2 \end{array} - \begin{array}{r} 9 \\ 5 \end{array} - \begin{array}{r} 7 \\ 5 \end{array} + \begin{array}{r} 1 \\ 1 \end{array}$$

$$-\frac{8}{4} + \frac{5}{5} - \frac{5}{3} - \frac{5}{2} - \frac{5}{1} - \frac{10}{5} - \frac{10}{5} - \frac{5}{4} + \frac{2}{3} + \frac{2}{3}$$

$$- \begin{array}{r} 6 \\ 3 \end{array} + \begin{array}{r} 5 \\ 4 \end{array} + \begin{array}{r} 1 \\ 3 \end{array} - \begin{array}{r} 4 \\ 2 \end{array} + \begin{array}{r} 5 \\ 4 \end{array} - \begin{array}{r} 9 \\ 4 \end{array} + \begin{array}{r} 5 \\ 3 \end{array} + \begin{array}{r} 5 \\ 2 \end{array} + \begin{array}{r} 1 \\ 5 \end{array} + \begin{array}{r} 4 \\ 1 \end{array}$$

$$= \frac{4}{3} = \frac{7}{3} + \frac{2}{3} + \frac{5}{3} + \frac{2}{3} + \frac{1}{3} + \frac{3}{3} + \frac{2}{3} - \frac{3}{2} + \frac{3}{2} + \frac{3}{2}$$

$$+ \frac{1}{2} = \frac{8}{4} + \frac{4}{3} + \frac{5}{2} - \frac{5}{2} = \frac{6}{4} - \frac{7}{2} = \frac{9}{4} + \frac{1}{3} + \frac{2}{1}$$

$$-\frac{6}{4} - \frac{4}{1} + \frac{1}{5} - \frac{4}{2} - \frac{8}{3} - \frac{2}{1} + \frac{5}{5} + \frac{5}{1} - \frac{8}{3} + \frac{5}{1}$$

$$+ \frac{1}{2} + \frac{2}{5} = \frac{2}{1} = \frac{2}{1} + \frac{3}{4} = \frac{6}{5} = \frac{7}{4} = \frac{4}{1} + \frac{3}{5} = \frac{5}{1}$$

# Opérations Mixtes Solutions (A)

## Complétez les exercices suivants

# Opérations Mixtes (B)

Complétez les exercices suivants

$$\begin{array}{r} + \\ \underline{2} & \underline{8} & \underline{9} & \underline{3} & \underline{3} & \underline{3} & \underline{4} & \underline{5} & \underline{6} & \underline{1} \\ + 3 & - 5 & - 4 & + 4 & + 2 & - 2 & - 2 & + 5 & - 5 & + 2 \end{array}$$

$$\begin{array}{r} + \\ \underline{1} & \underline{6} & \underline{9} & \underline{5} & \underline{3} & \underline{6} & \underline{1} & \underline{2} & \underline{8} & \underline{5} \\ + 3 & - 4 & - 4 & - 2 & + 4 & - 1 & + 4 & + 5 & - 5 & + 4 \end{array}$$

$$\begin{array}{r} + \\ \underline{3} & \underline{6} & \underline{2} & \underline{9} & \underline{3} & \underline{6} & \underline{3} & \underline{3} & \underline{5} & \underline{7} \\ + 3 & - 4 & + 2 & - 5 & + 5 & - 1 & - 2 & + 5 & + 4 & - 2 \end{array}$$

$$\begin{array}{r} - \\ \underline{2} & \underline{1} & \underline{6} & \underline{4} & \underline{6} & \underline{4} & \underline{2} & \underline{1} & \underline{4} & \underline{2} \\ - 1 & + 4 & - 1 & + 3 & - 4 & - 1 & - 1 & + 3 & + 2 & + 1 \end{array}$$

$$\begin{array}{r} + \\ \underline{2} & \underline{5} & \underline{3} & \underline{5} & \underline{1} & \underline{5} & \underline{1} & \underline{6} & \underline{3} & \underline{6} \\ + 5 & - 2 & + 5 & - 1 & + 5 & + 4 & + 3 & - 4 & + 1 & - 2 \end{array}$$

$$\begin{array}{r} + \\ \underline{5} & \underline{8} & \underline{7} & \underline{4} & \underline{4} & \underline{3} & \underline{3} & \underline{5} & \underline{7} & \underline{3} \\ + 4 & - 3 & - 4 & + 4 & + 1 & - 2 & + 2 & + 1 & - 2 & - 1 \end{array}$$

$$\begin{array}{r} - \\ \underline{9} & \underline{9} & \underline{3} & \underline{4} & \underline{3} & \underline{5} & \underline{6} & \underline{8} & \underline{3} & \underline{3} \\ - 5 & - 4 & - 1 & - 1 & + 1 & + 5 & - 1 & - 5 & - 2 & - 2 \end{array}$$

$$\begin{array}{r} - \\ \underline{5} & \underline{9} & \underline{2} & \underline{7} & \underline{3} & \underline{2} & \underline{1} & \underline{7} & \underline{7} & \underline{3} \\ - 3 & - 4 & + 5 & - 2 & + 5 & + 1 & + 2 & - 5 & - 4 & - 2 \end{array}$$

$$\begin{array}{r} + \\ \underline{5} & \underline{4} & \underline{5} & \underline{2} & \underline{7} & \underline{2} & \underline{5} & \underline{7} & \underline{6} & \underline{7} \\ + 2 & + 5 & - 1 & + 3 & - 5 & + 5 & + 4 & - 4 & - 4 & - 4 \end{array}$$

$$\begin{array}{r} - \\ \underline{3} & \underline{7} & \underline{3} & \underline{1} & \underline{2} & \underline{3} & \underline{9} & \underline{2} & \underline{5} & \underline{2} \\ - 2 & - 5 & + 4 & + 3 & + 2 & + 3 & - 5 & - 1 & - 2 & + 3 \end{array}$$

# Opérations Mixtes Solutions (B)

## Complétez les exercices suivants

## Opérations Mixtes (C)

## Complétez les exercices suivants

$$\begin{array}{r} \underline{-} \quad \underline{+} \quad \underline{+} \quad \underline{+} \quad \underline{+} \quad \underline{+} \\ 6 \qquad 4 \qquad 1 \qquad 3 \qquad 5 \qquad 5 \\ -5 \qquad +4 \qquad +2 \qquad +2 \qquad +5 \qquad +4 \\ \hline \end{array}$$

$$\begin{array}{r}
 + \frac{2}{3} \\
 + \frac{5}{3} \\
 \hline
 - \frac{3}{3} \\
 + \frac{3}{5} \\
 \hline
 + \frac{2}{5} \\
 + \frac{2}{3} \\
 \hline
 + \frac{4}{5} \\
 - \frac{6}{4} \\
 \hline
 - \frac{5}{2} \\
 + \frac{1}{3} \\
 \hline
 + \frac{1}{4}
 \end{array}$$

$$\begin{array}{r}
 + \quad 5 \\
 + \quad 4 \\
 \hline
 - \quad 1
 \end{array}
 \quad
 \begin{array}{r}
 - \quad 9 \\
 - \quad 4 \\
 \hline
 + \quad 4
 \end{array}
 \quad
 \begin{array}{r}
 + \quad 1 \\
 + \quad 3 \\
 \hline
 + \quad 1
 \end{array}
 \quad
 \begin{array}{r}
 + \quad 1 \\
 + \quad 2 \\
 \hline
 + \quad 3
 \end{array}
 \quad
 \begin{array}{r}
 + \quad 2 \\
 + \quad 4 \\
 \hline
 - \quad 6
 \end{array}$$

$$-\frac{6}{3} + \frac{2}{4} + \frac{4}{5} - \frac{5}{2} + \frac{1}{4} + \frac{2}{1} - \frac{9}{4} - \frac{2}{1} + \frac{4}{1} - \frac{3}{1}$$

$$-\frac{5}{4} - \frac{6}{4} + \frac{2}{2} - \frac{3}{2} + \frac{3}{5} + \frac{2}{2} - \frac{5}{2} + \frac{3}{3} - \frac{6}{1} + \frac{2}{2}$$

$$- \begin{array}{r} 6 \\ 1 \end{array} + \begin{array}{r} 2 \\ 4 \end{array} + \begin{array}{r} 3 \\ 4 \end{array} + \begin{array}{r} 4 \\ 4 \end{array} + \begin{array}{r} 2 \\ 4 \end{array} + \begin{array}{r} 5 \\ 2 \end{array} - \begin{array}{r} 8 \\ 3 \end{array} - \begin{array}{r} 4 \\ 1 \end{array} - \begin{array}{r} 9 \\ 5 \end{array} + \begin{array}{r} 4 \\ 5 \end{array}$$

$$-\frac{10}{5} + \frac{4}{5} - \frac{9}{5} + \frac{1}{5} - \frac{8}{5} - \frac{6}{1} - \frac{5}{4} + \frac{5}{4} + \frac{1}{3} + \frac{1}{2}$$

$$+ \frac{3}{4} = \frac{3}{1} = \frac{9}{4} + \frac{3}{3} = \frac{5}{3} + \frac{4}{1} = \frac{6}{3} = \frac{6}{2} + \frac{3}{5} = \frac{6}{4}$$

$$+ \frac{1}{1} + \frac{1}{3} + \frac{5}{1} + \frac{5}{1} - \frac{7}{4} - \frac{5}{2} + \frac{4}{2} - \frac{7}{5} - \frac{8}{3} + \frac{3}{3}$$

$$+ \frac{2}{2} - \frac{8}{4} + \frac{2}{3} + \frac{2}{4} + \frac{2}{1} + \frac{3}{1} - \frac{6}{5} + \frac{2}{5} + \frac{3}{5} - \frac{3}{2}$$

# Opérations Mixtes Solutions (C)

## Complétez les exercices suivants

## Opérations Mixtes (D)

## Complétez les exercices suivants

$$\begin{array}{r}
 + 5 \\
 + 2 \\
 \hline
 - 4 \\
 \hline
 - 4 \\
 - 1 \\
 + 1 \\
 \hline
 - 1 \\
 + 3 \\
 \hline
 + 3 \\
 + 1 \\
 \hline
 + 2 \\
 + 1 \\
 \hline
 - 6 \\
 \hline
 - 1
 \end{array}$$

$$\begin{array}{r}
 + \frac{1}{5} \\
 + \frac{4}{5} \\
 + \frac{5}{5} \\
 - \frac{8}{3} \\
 + \frac{3}{1} \\
 - \frac{6}{2} \\
 + \frac{1}{5} \\
 + \frac{5}{4} \\
 + \frac{4}{2} \\
 + \frac{5}{1}
 \end{array}$$

$$\begin{array}{r}
 -\frac{3}{2} + \frac{4}{3} - \frac{6}{1} + \frac{5}{3} - \frac{9}{5} - \frac{6}{2} - \frac{7}{5} + \frac{5}{5} + \frac{1}{2} - \frac{7}{5}
 \end{array}$$

$$-\frac{3}{1} - \frac{9}{4} - \frac{3}{1} - \frac{6}{4} + \frac{2}{5} + \frac{4}{4} + \frac{3}{3} + \frac{1}{5} + \frac{1}{1} - \frac{6}{3}$$

$$+ \begin{array}{r} 2 \\ 2 \end{array} + \begin{array}{r} 4 \\ 5 \end{array} + \begin{array}{r} 4 \\ 3 \end{array} - \begin{array}{r} 4 \\ 2 \end{array} + \begin{array}{r} 4 \\ 4 \end{array} - \begin{array}{r} 3 \\ 1 \end{array} + \begin{array}{r} 4 \\ 2 \end{array} - \begin{array}{r} 6 \\ 5 \end{array} - \begin{array}{r} 9 \\ 4 \end{array} + \begin{array}{r} 4 \\ 1 \end{array}$$

$$+ \begin{array}{r} 1 \\ 1 \end{array} - \begin{array}{r} 2 \\ 1 \end{array} + \begin{array}{r} 4 \\ 1 \end{array} + \begin{array}{r} 1 \\ 1 \end{array} - \begin{array}{r} 2 \\ 1 \end{array} + \begin{array}{r} 2 \\ 2 \end{array} + \begin{array}{r} 1 \\ 3 \end{array} - \begin{array}{r} 9 \\ 5 \end{array} - \begin{array}{r} 3 \\ 2 \end{array} - \begin{array}{r} 5 \\ 1 \end{array}$$

$$+ \begin{array}{r} 1 \\ 5 \end{array} + \begin{array}{r} 2 \\ 2 \end{array} - \begin{array}{r} 4 \\ 3 \end{array} - \begin{array}{r} 9 \\ 4 \end{array} - \begin{array}{r} 7 \\ 3 \end{array} + \begin{array}{r} 4 \\ 1 \end{array} - \begin{array}{r} 3 \\ 1 \end{array} - \begin{array}{r} 8 \\ 4 \end{array} + \begin{array}{r} 3 \\ 4 \end{array} - \begin{array}{r} 2 \\ 1 \end{array}$$

$$+ \frac{2}{2} = \frac{2}{1} + \frac{1}{5} + \frac{3}{5} - \frac{7}{3} + \frac{4}{2} + \frac{2}{5} + \frac{3}{5} + \frac{1}{4} + \frac{2}{4}$$

$$= \frac{4}{3} + \frac{3}{3} + \frac{3}{3} + \frac{2}{1} + \frac{2}{5} + \frac{2}{4} + \frac{2}{4} + \frac{3}{2} = \frac{3}{2} = \frac{6}{5}$$

$$+ \frac{2}{2} + \frac{2}{5} = \frac{6}{1} = \frac{5}{3} + \frac{5}{3} + \frac{4}{3} = \frac{6}{1} + \frac{2}{4} = \frac{8}{5} = \frac{7}{5}$$

# Opérations Mixtes Solutions (D)

## Complétez les exercices suivants

## Opérations Mixtes (E)

## Complétez les exercices suivants

$$\begin{array}{r}
 -\frac{6}{2} + \frac{2}{1} + \frac{3}{4} + \frac{4}{5} - \frac{4}{2} - \frac{2}{1} + \frac{1}{4} + \frac{2}{4} + \frac{5}{3} - \frac{8}{4}
 \end{array}$$

$$\begin{array}{r}
 + \frac{1}{5} \\
 - \frac{4}{2} \\
 - \frac{3}{2} \\
 - \frac{8}{5} \\
 + \frac{3}{4} \\
 + \frac{1}{5} \\
 + \frac{4}{3} \\
 - \frac{7}{2} \\
 - \frac{5}{3} \\
 - \frac{3}{2}
 \end{array}$$

$$\begin{array}{r}
 + \quad 4 \\
 + \quad 1 \\
 \hline
 + \quad 2 \\
 + \quad 3 \\
 \hline
 + \quad 3 \\
 + \quad 4 \\
 \hline
 - \quad 9 \\
 - \quad 5 \\
 \hline
 - \quad 7 \\
 - \quad 4 \\
 \hline
 + \quad 2 \\
 + \quad 4 \\
 \hline
 + \quad 2 \\
 + \quad 5 \\
 \hline
 + \quad 5 \\
 + \quad 5 \\
 \hline
 - \quad 7 \\
 - \quad 4 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 -\frac{6}{5} + \frac{1}{2} - \frac{8}{4} + \frac{1}{5} + \frac{5}{2} - \frac{10}{5} - \frac{6}{2} - \frac{6}{2} + \frac{5}{2} - \frac{7}{3}
 \end{array}$$

$$\begin{array}{r}
 + \frac{1}{3} \\
 - \frac{2}{1} \\
 - \frac{5}{3} \\
 + \frac{2}{5} \\
 + \frac{5}{5} \\
 - \frac{6}{5} \\
 - \frac{9}{4} \\
 - \frac{7}{5} \\
 + \frac{2}{2} \\
 - \frac{3}{2}
 \end{array}$$

$$-\frac{4}{3} - \frac{9}{5} - \frac{9}{4} + \frac{5}{3} + \frac{2}{2} + \frac{2}{1} + \frac{5}{3} - \frac{8}{3} - \frac{7}{5} - \frac{6}{4}$$

$$\begin{array}{r}
 -8 \\
 -4 \\
 +2 \\
 \hline
 -3
 \end{array}
 \quad
 \begin{array}{r}
 +4 \\
 +1 \\
 +3 \\
 \hline
 +1
 \end{array}
 \quad
 \begin{array}{r}
 +2 \\
 +3 \\
 +1 \\
 \hline
 +5
 \end{array}
 \quad
 \begin{array}{r}
 +5 \\
 +2 \\
 \hline
 +2
 \end{array}
 \quad
 \begin{array}{r}
 +3 \\
 \hline
 -1
 \end{array}$$

$$\begin{array}{r}
 + \quad 3 \\
 + \quad 3 \\
 \hline
 - \quad 6 \\
 - \quad 2 \\
 \hline
 - \quad 9 \\
 - \quad 5 \\
 \hline
 + \quad 3 \\
 - \quad 1 \\
 \hline
 + \quad 6 \\
 + \quad 5 \\
 \hline
 + \quad 1 \\
 + \quad 5 \\
 \hline
 + \quad 2 \\
 + \quad 2 \\
 \hline
 + \quad 4 \\
 + \quad 4 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 + \frac{5}{2} \\
 + \frac{5}{4} \\
 - \frac{5}{3} \\
 + \frac{2}{2} \\
 - \frac{4}{3} \\
 + \frac{2}{1} \\
 - \frac{6}{2} \\
 - \frac{6}{3} \\
 + \frac{2}{4} \\
 + \frac{3}{2}
 \end{array}$$

$$+ \frac{2}{2} - \frac{10}{5} - \frac{4}{2} - \frac{2}{1} + \frac{3}{1} + \frac{1}{1} + \frac{2}{5} + \frac{3}{3} + \frac{5}{5} - \frac{3}{2}$$

# Opérations Mixtes Solutions (E)

## Complétez les exercices suivants

$$\begin{array}{r}
 -\frac{6}{2} + \frac{2}{1} + \frac{3}{4} + \frac{4}{5} - \frac{4}{2} - \frac{2}{1} + \frac{1}{4} + \frac{2}{4} + \frac{5}{3} - \frac{8}{4} \\
 \hline
 4 \quad 3 \quad 7 \quad 9 \quad 2 \quad 1 \quad 5 \quad 6 \quad 8 \quad 4
 \end{array}$$

$$\begin{array}{r} + \quad 1 \\ + \quad 5 \\ \hline 6 \end{array} \quad \begin{array}{r} - \quad 4 \\ - \quad 2 \\ \hline 2 \end{array} \quad \begin{array}{r} - \quad 3 \\ - \quad 2 \\ \hline 1 \end{array} \quad \begin{array}{r} - \quad 8 \\ - \quad 5 \\ \hline 3 \end{array} \quad \begin{array}{r} + \quad 3 \\ + \quad 4 \\ \hline 7 \end{array} \quad \begin{array}{r} + \quad 1 \\ + \quad 5 \\ \hline 6 \end{array} \quad \begin{array}{r} + \quad 4 \\ + \quad 3 \\ \hline 7 \end{array} \quad \begin{array}{r} - \quad 7 \\ - \quad 2 \\ \hline 5 \end{array} \quad \begin{array}{r} - \quad 5 \\ - \quad 3 \\ \hline 2 \end{array} \quad \begin{array}{r} - \quad 3 \\ - \quad 2 \\ \hline 1 \end{array}$$

$$\begin{array}{r} \underline{+} \\ \begin{array}{r} 4 \\ + 1 \\ \hline 5 \end{array} & \begin{array}{r} 2 \\ + 3 \\ \hline 5 \end{array} & \begin{array}{r} 3 \\ + 4 \\ \hline 7 \end{array} & \begin{array}{r} 9 \\ - 5 \\ \hline 4 \end{array} & \begin{array}{r} 7 \\ - 4 \\ \hline 3 \end{array} & \begin{array}{r} 2 \\ + 4 \\ \hline 6 \end{array} & \begin{array}{r} 2 \\ + 4 \\ \hline 6 \end{array} & \begin{array}{r} 5 \\ + 5 \\ \hline 10 \end{array} & \begin{array}{r} 5 \\ + 5 \\ \hline 10 \end{array} & \begin{array}{r} 7 \\ - 4 \\ \hline 3 \end{array} \end{array}$$

$$\begin{array}{r}
 -\frac{6}{5} \\
 +\frac{1}{2} \\
 \hline
 1
 \end{array}
 \quad
 \begin{array}{r}
 -\frac{8}{4} \\
 +\frac{1}{5} \\
 \hline
 3
 \end{array}
 \quad
 \begin{array}{r}
 +\frac{5}{2} \\
 -\frac{10}{5} \\
 \hline
 4
 \end{array}
 \quad
 \begin{array}{r}
 -\frac{6}{2} \\
 -\frac{6}{4} \\
 \hline
 4
 \end{array}
 \quad
 \begin{array}{r}
 +\frac{5}{2} \\
 -\frac{7}{3} \\
 \hline
 4
 \end{array}$$

$$\begin{array}{r} \frac{1}{+3} \\[-1ex] \frac{4}{4} \end{array} \quad \begin{array}{r} \frac{2}{-1} \\[-1ex] \frac{1}{1} \end{array} \quad \begin{array}{r} \frac{5}{-3} \\[-1ex] \frac{2}{2} \end{array} \quad \begin{array}{r} \frac{2}{+5} \\[-1ex] \frac{7}{7} \end{array} \quad \begin{array}{r} \frac{5}{+5} \\[-1ex] \frac{10}{10} \end{array} \quad \begin{array}{r} \frac{6}{-5} \\[-1ex] \frac{1}{1} \end{array} \quad \begin{array}{r} \frac{9}{-4} \\[-1ex] \frac{5}{5} \end{array} \quad \begin{array}{r} \frac{7}{-5} \\[-1ex] \frac{2}{2} \end{array} \quad \begin{array}{r} \frac{2}{+2} \\[-1ex] \frac{4}{4} \end{array} \quad \begin{array}{r} \frac{3}{-2} \\[-1ex] \frac{1}{1} \end{array}$$

$$\begin{array}{r} 4 \\ - 3 \\ \hline 1 \end{array} \quad \begin{array}{r} 9 \\ - 5 \\ \hline 4 \end{array} \quad \begin{array}{r} 9 \\ - 4 \\ \hline 5 \end{array} \quad \begin{array}{r} 5 \\ + 3 \\ \hline 8 \end{array} \quad \begin{array}{r} 2 \\ + 2 \\ \hline 4 \end{array} \quad \begin{array}{r} 2 \\ + 1 \\ \hline 3 \end{array} \quad \begin{array}{r} 5 \\ + 3 \\ \hline 8 \end{array} \quad \begin{array}{r} 8 \\ - 3 \\ \hline 5 \end{array} \quad \begin{array}{r} 7 \\ - 5 \\ \hline 2 \end{array} \quad \begin{array}{r} 6 \\ - 4 \\ \hline 2 \end{array}$$

$$\begin{array}{r} 8 \\ - 4 \\ \hline 4 \end{array} \quad \begin{array}{r} 2 \\ + 5 \\ \hline 7 \end{array} \quad \begin{array}{r} 8 \\ - 3 \\ \hline 5 \end{array} \quad \begin{array}{r} 4 \\ + 1 \\ \hline 5 \end{array} \quad \begin{array}{r} 2 \\ + 3 \\ \hline 5 \end{array} \quad \begin{array}{r} 3 \\ + 1 \\ \hline 4 \end{array} \quad \begin{array}{r} 5 \\ + 5 \\ \hline 10 \end{array} \quad \begin{array}{r} 2 \\ + 2 \\ \hline 4 \end{array} \quad \begin{array}{r} 2 \\ + 3 \\ \hline 5 \end{array} \quad \begin{array}{r} 6 \\ - 1 \\ \hline 5 \end{array}$$

$$\begin{array}{r} \underline{+} \\ \begin{array}{r} 3 \\ 3 \\ \hline 6 \end{array} & \begin{array}{r} - \\ - \\ \hline 6 \\ 5 \\ \hline 1 \end{array} & \begin{array}{r} - \\ - \\ \hline 6 \\ 2 \\ \hline 4 \end{array} & \begin{array}{r} - \\ - \\ \hline 9 \\ 5 \\ \hline 4 \end{array} & \begin{array}{r} + \\ + \\ \hline 3 \\ 3 \\ \hline 6 \end{array} & \begin{array}{r} - \\ - \\ \hline 6 \\ 1 \\ \hline 5 \end{array} & \begin{array}{r} + \\ + \\ \hline 1 \\ 5 \\ \hline 6 \end{array} & \begin{array}{r} + \\ + \\ \hline 2 \\ 2 \\ \hline 4 \end{array} & \begin{array}{r} + \\ + \\ \hline 2 \\ 4 \\ \hline 6 \end{array} & \begin{array}{r} + \\ + \\ \hline 4 \\ 4 \\ \hline 8 \end{array} \end{array}$$

$$\begin{array}{r} + 5 \\ + 2 \\ \hline 7 \end{array} \quad \begin{array}{r} + 5 \\ + 4 \\ \hline 0 \end{array} \quad \begin{array}{r} - 5 \\ - 3 \\ \hline 2 \end{array} \quad \begin{array}{r} + 2 \\ - 3 \\ \hline 1 \end{array} \quad \begin{array}{r} - 4 \\ + 1 \\ \hline 3 \end{array} \quad \begin{array}{r} - 6 \\ - 2 \\ \hline 4 \end{array} \quad \begin{array}{r} - 6 \\ + 4 \\ \hline 6 \end{array} \quad \begin{array}{r} + 2 \\ + 2 \\ \hline 5 \end{array}$$

$$\begin{array}{r}
 + 2 \\
 + 2 \\
 \hline
 4
 \end{array}
 \quad
 \begin{array}{r}
 - 10 \\
 - 5 \\
 \hline
 5
 \end{array}
 \quad
 \begin{array}{r}
 - 4 \\
 - 2 \\
 \hline
 2
 \end{array}
 \quad
 \begin{array}{r}
 - 2 \\
 - 1 \\
 \hline
 1
 \end{array}
 \quad
 \begin{array}{r}
 + 3 \\
 + 1 \\
 \hline
 4
 \end{array}
 \quad
 \begin{array}{r}
 + 1 \\
 + 1 \\
 \hline
 2
 \end{array}
 \quad
 \begin{array}{r}
 + 2 \\
 + 5 \\
 \hline
 7
 \end{array}
 \quad
 \begin{array}{r}
 + 3 \\
 + 3 \\
 \hline
 6
 \end{array}
 \quad
 \begin{array}{r}
 + 5 \\
 + 5 \\
 \hline
 10
 \end{array}
 \quad
 \begin{array}{r}
 - 3 \\
 - 2 \\
 \hline
 1
 \end{array}$$

# Opérations Mixtes (F)

## Complétez les exercices suivants

$$\begin{array}{r} \underline{-\phantom{0}3} \\ \underline{-\phantom{0}2} \end{array} \quad \begin{array}{r} \underline{-\phantom{0}6} \\ \underline{-\phantom{0}3} \end{array} \quad \begin{array}{r} \underline{+\phantom{0}5} \\ \underline{+\phantom{0}1} \end{array} \quad \begin{array}{r} \underline{-\phantom{0}5} \\ \underline{-\phantom{0}2} \end{array} \quad \begin{array}{r} \underline{+\phantom{0}3} \\ \underline{+\phantom{0}4} \end{array} \quad \begin{array}{r} \underline{+\phantom{0}3} \\ \underline{+\phantom{0}1} \end{array} \quad \begin{array}{r} \underline{-\phantom{0}8} \\ \underline{-\phantom{0}3} \end{array} \quad \begin{array}{r} \underline{-\phantom{0}6} \\ \underline{-\phantom{0}2} \end{array} \quad \begin{array}{r} \underline{+\phantom{0}2} \\ \underline{+\phantom{0}4} \end{array} \quad \begin{array}{r} \underline{+\phantom{0}4} \\ \underline{+\phantom{0}2} \end{array}$$

$$\begin{array}{r}
 + \frac{5}{4} \\
 - \frac{3}{1} \\
 + \frac{3}{5} \\
 - \frac{2}{1} \\
 - \frac{10}{5} \\
 + \frac{3}{4} \\
 + \frac{1}{5} \\
 - \frac{6}{4} \\
 - \frac{4}{2} \\
 + \frac{1}{4}
 \end{array}$$

$$\begin{array}{r}
 + \frac{1}{5} \\
 - \frac{4}{3} \\
 - \frac{6}{2} \\
 - \frac{6}{2} \\
 + \frac{2}{3} \\
 + \frac{1}{4} \\
 + \frac{3}{2} \\
 - \frac{5}{2} \\
 + \frac{4}{5} \\
 - \frac{4}{3}
 \end{array}$$

$$\begin{array}{ccccccccccccc}
 - & 8 & & 8 & + & 3 & - & 5 & - & 7 & - & 4 & - & 4 & - & 8 & + & 2 & + & 4 \\
 - & 5 & - & 4 & + & 3 & - & 3 & - & 2 & - & 3 & - & 2 & - & 5 & + & 1 & + & 2
 \end{array}$$

$$+ \begin{array}{r} 3 \\ 1 \end{array} - \begin{array}{r} 6 \\ 4 \end{array} - \begin{array}{r} 2 \\ 1 \end{array} + \begin{array}{r} 1 \\ 2 \end{array} + \begin{array}{r} 3 \\ 2 \end{array} - \begin{array}{r} 5 \\ 3 \end{array} + \begin{array}{r} 5 \\ 2 \end{array} - \begin{array}{r} 9 \\ 4 \end{array} - \begin{array}{r} 6 \\ 3 \end{array} + \begin{array}{r} 2 \\ 1 \end{array}$$

$$-\frac{5}{1} + \frac{1}{4} + \frac{5}{4} - \frac{4}{3} + \frac{4}{3} - \frac{8}{4} - \frac{7}{3} - \frac{7}{5} + \frac{1}{3} - \frac{7}{4}$$

$$-\frac{6}{5} - \frac{5}{3} - \frac{7}{3} + \frac{1}{4} - \frac{9}{5} + \frac{5}{3} + \frac{3}{5} + \frac{2}{1} - \frac{5}{3} - \frac{9}{4}$$

$$- \begin{array}{r} 7 \\ 4 \end{array} + \begin{array}{r} 3 \\ 3 \end{array} - \begin{array}{r} 6 \\ 3 \end{array} + \begin{array}{r} 4 \\ 4 \end{array} + \begin{array}{r} 2 \\ 5 \end{array} - \begin{array}{r} 6 \\ 2 \end{array} - \begin{array}{r} 5 \\ 3 \end{array} + \begin{array}{r} 3 \\ 3 \end{array} + \begin{array}{r} 2 \\ 2 \end{array} - \begin{array}{r} 8 \\ 3 \end{array}$$

$$- \begin{array}{r} 9 \\ 4 \end{array} - \begin{array}{r} 8 \\ 5 \end{array} + \begin{array}{r} 3 \\ 4 \end{array} + \begin{array}{r} 4 \\ 5 \end{array} - \begin{array}{r} 6 \\ 5 \end{array} - \begin{array}{r} 8 \\ 5 \end{array} + \begin{array}{r} 1 \\ 4 \end{array} + \begin{array}{r} 4 \\ 5 \end{array} - \begin{array}{r} 3 \\ 2 \end{array} - \begin{array}{r} 5 \\ 3 \end{array}$$

$$-\frac{3}{1} + \frac{3}{3} - \frac{6}{5} + \frac{4}{4} - \frac{9}{5} + \frac{4}{4} + \frac{2}{5} + \frac{1}{4} - \frac{6}{2} + \frac{2}{2}$$

# Opérations Mixtes Solutions (F)

## Complétez les exercices suivants

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

# Opérations Mixtes (G)

Complétez les exercices suivants

$$\begin{array}{r} - \\ \underline{6} & + \\ \underline{2} & 3 \\ \hline & 5 \end{array} \quad \begin{array}{r} - \\ \underline{2} & - \\ \underline{1} & 4 \\ \hline & 3 \end{array} \quad \begin{array}{r} + \\ \underline{5} & 4 \\ \underline{2} & 10 \\ \hline & 5 \end{array} \quad \begin{array}{r} - \\ \underline{1} & 6 \\ \underline{5} & 10 \\ \hline & 5 \end{array}$$

$$\begin{array}{r} + \\ \underline{4} & 2 \\ \underline{5} & 2 \\ \hline & 5 \end{array} \quad \begin{array}{r} + \\ \underline{1} & 2 \\ \underline{3} & 2 \\ \hline & 9 \end{array} \quad \begin{array}{r} + \\ \underline{4} & 2 \\ \underline{5} & 4 \\ \hline & 6 \end{array} \quad \begin{array}{r} - \\ \underline{2} & 5 \\ \underline{1} & 2 \\ \hline & 1 \end{array}$$

$$\begin{array}{r} - \\ \underline{7} & 5 \\ \underline{4} & 1 \\ \hline & 3 \end{array} \quad \begin{array}{r} - \\ \underline{2} & 3 \\ \underline{1} & 3 \\ \hline & 3 \end{array} \quad \begin{array}{r} + \\ \underline{4} & 6 \\ \underline{4} & 1 \\ \hline & 5 \end{array} \quad \begin{array}{r} + \\ \underline{3} & 5 \\ \underline{3} & 1 \\ \hline & 4 \end{array}$$

$$\begin{array}{r} - \\ \underline{4} & 5 \\ \underline{1} & 4 \\ \hline & 5 \end{array} \quad \begin{array}{r} - \\ \underline{2} & 4 \\ \underline{2} & 2 \\ \hline & 4 \end{array} \quad \begin{array}{r} + \\ \underline{3} & 2 \\ \underline{2} & 1 \\ \hline & 2 \end{array} \quad \begin{array}{r} + \\ \underline{1} & 6 \\ \underline{4} & 1 \\ \hline & 5 \end{array} \quad \begin{array}{r} + \\ \underline{5} & 1 \\ \underline{2} & 5 \\ \hline & 5 \end{array}$$

$$\begin{array}{r} + \\ \underline{3} & 1 \\ \underline{2} & 5 \\ \hline & 4 \end{array} \quad \begin{array}{r} - \\ \underline{2} & 4 \\ \underline{4} & 2 \\ \hline & 2 \end{array} \quad \begin{array}{r} + \\ \underline{2} & 1 \\ \underline{4} & 1 \\ \hline & 1 \end{array} \quad \begin{array}{r} - \\ \underline{4} & 9 \\ \underline{4} & 5 \\ \hline & 5 \end{array} \quad \begin{array}{r} + \\ \underline{4} & 3 \\ \underline{3} & 3 \\ \hline & 3 \end{array}$$

$$\begin{array}{r} - \\ \underline{7} & 5 \\ \underline{3} & 3 \\ \hline & 6 \end{array} \quad \begin{array}{r} - \\ \underline{1} & 5 \\ \underline{3} & 3 \\ \hline & 5 \end{array} \quad \begin{array}{r} + \\ \underline{4} & 7 \\ \underline{4} & 2 \\ \hline & 2 \end{array} \quad \begin{array}{r} - \\ \underline{4} & 7 \\ \underline{4} & 1 \\ \hline & 1 \end{array} \quad \begin{array}{r} - \\ \underline{5} & 9 \\ \underline{5} & 2 \\ \hline & 7 \end{array}$$

$$\begin{array}{r} + \\ \underline{2} & 6 \\ \underline{2} & 4 \\ \hline & 6 \end{array} \quad \begin{array}{r} - \\ \underline{1} & 6 \\ \underline{1} & 3 \\ \hline & 3 \end{array} \quad \begin{array}{r} + \\ \underline{3} & 4 \\ \underline{2} & 1 \\ \hline & 5 \end{array} \quad \begin{array}{r} + \\ \underline{5} & 4 \\ \underline{1} & 1 \\ \hline & 5 \end{array} \quad \begin{array}{r} - \\ \underline{3} & 4 \\ \underline{2} & 4 \\ \hline & 2 \end{array}$$

$$\begin{array}{r} - \\ \underline{5} & 4 \\ \underline{1} & 4 \\ \hline & 9 \end{array} \quad \begin{array}{r} - \\ \underline{1} & 6 \\ \underline{1} & 3 \\ \hline & 6 \end{array} \quad \begin{array}{r} + \\ \underline{3} & 2 \\ \underline{5} & 6 \\ \hline & 6 \end{array} \quad \begin{array}{r} - \\ \underline{1} & 6 \\ \underline{4} & 4 \\ \hline & 2 \end{array} \quad \begin{array}{r} + \\ \underline{1} & 1 \\ \underline{5} & 5 \\ \hline & 5 \end{array}$$

$$\begin{array}{r} + \\ \underline{5} & 8 \\ \underline{5} & 4 \\ \hline & 1 \end{array} \quad \begin{array}{r} + \\ \underline{3} & 1 \\ \underline{2} & 5 \\ \hline & 1 \end{array} \quad \begin{array}{r} - \\ \underline{2} & 5 \\ \underline{5} & 7 \\ \hline & 2 \end{array} \quad \begin{array}{r} + \\ \underline{3} & 1 \\ \underline{1} & 2 \\ \hline & 2 \end{array} \quad \begin{array}{r} + \\ \underline{2} & 5 \\ \underline{4} & 6 \\ \hline & 6 \end{array}$$

$$\begin{array}{r} + \\ \underline{3} & 4 \\ \underline{3} & 1 \\ \hline & 6 \end{array} \quad \begin{array}{r} + \\ \underline{2} & 1 \\ \underline{2} & 8 \\ \hline & 1 \end{array} \quad \begin{array}{r} - \\ \underline{4} & 8 \\ \underline{4} & 2 \\ \hline & 4 \end{array} \quad \begin{array}{r} + \\ \underline{3} & 2 \\ \underline{1} & 4 \\ \hline & 4 \end{array} \quad \begin{array}{r} - \\ \underline{5} & 5 \\ \underline{4} & 4 \\ \hline & 8 \end{array}$$

# Opérations Mixtes Solutions (G)

Complétez les exercices suivants

$$\begin{array}{r} - & 6 & + & 3 & - & 5 & - & 4 & - & 3 & + & 4 & - & 10 & + & 5 & - & 6 & - & 10 \\ \hline - & 2 & + & 3 & - & 2 & - & 1 & - & 2 & + & 5 & - & 5 & + & 4 & - & 1 & - & 5 \\ \hline & 4 & & 6 & & 3 & & 3 & & 1 & & 9 & & 5 & & 9 & & 5 & & 5 \\ + & 5 & + & 2 & + & 5 & + & 2 & + & 3 & - & 4 & + & 2 & + & 5 & - & 2 & - & 1 & - & 2 \\ \hline & 9 & & 4 & & 6 & & 5 & & 5 & & 4 & & 9 & & 4 & & 4 & & 1 \\ - & 4 & + & 1 & - & 1 & - & 2 & - & 1 & - & 4 & + & 4 & + & 3 & + & 3 & + & 1 & + & 1 \\ \hline & 3 & & 6 & & 2 & & 1 & & 2 & & 2 & & 5 & & 8 & & 8 & & 5 \\ - & 1 & + & 4 & - & 3 & - & 2 & + & 2 & + & 3 & + & 1 & - & 4 & + & 5 & + & 2 & + & 5 \\ \hline & 3 & & 9 & & 2 & & 2 & & 3 & & 5 & & 3 & & 2 & & 6 & & 7 \\ + & 2 & + & 5 & - & 2 & + & 4 & + & 2 & + & 4 & + & 2 & - & 4 & + & 4 & + & 3 & + & 3 \\ \hline & 5 & & 6 & & 2 & & 8 & & 4 & & 5 & & 3 & & 5 & & 9 & & 6 \\ - & 3 & - & 3 & - & 1 & + & 3 & - & 4 & + & 1 & - & 4 & - & 4 & + & 4 & - & 5 & - & 4 \\ \hline & 4 & & 2 & & 5 & & 8 & & 3 & & 3 & & 3 & & 5 & & 9 & & 3 \\ + & 2 & + & 6 & - & 1 & + & 3 & + & 2 & + & 5 & + & 1 & - & 3 & + & 4 & + & 6 & + & 2 \\ \hline & 4 & & 2 & & 5 & & 6 & & 5 & & 4 & & 5 & & 4 & & 6 & & 7 \\ - & 1 & + & 4 & - & 3 & - & 1 & + & 3 & - & 4 & + & 1 & - & 4 & + & 2 & - & 5 & - & 4 \\ \hline & 3 & & 8 & & 5 & & 8 & & 3 & & 3 & & 3 & & 5 & & 9 & & 3 \\ + & 2 & + & 5 & - & 4 & + & 3 & + & 2 & + & 5 & + & 1 & - & 3 & + & 4 & + & 6 & + & 2 \\ \hline & 5 & & 3 & & 5 & & 6 & & 4 & & 5 & & 5 & & 4 & & 6 & & 7 \\ - & 1 & + & 4 & - & 4 & - & 1 & + & 3 & + & 5 & - & 1 & - & 4 & + & 1 & + & 2 & + & 5 \\ \hline & 4 & & 8 & & 5 & & 5 & & 7 & & 7 & & 5 & & 4 & & 6 & & 10 \\ + & 2 & + & 6 & - & 1 & + & 3 & + & 2 & + & 5 & + & 1 & - & 3 & + & 4 & + & 6 & + & 2 \\ \hline & 6 & & 2 & & 5 & & 6 & & 5 & & 4 & & 5 & & 4 & & 6 & & 7 \\ - & 1 & + & 4 & - & 4 & - & 1 & + & 3 & + & 5 & - & 1 & - & 4 & + & 1 & + & 2 & + & 5 \\ \hline & 5 & & 8 & & 4 & & 9 & & 6 & & 4 & & 6 & & 6 & & 1 & & 5 \\ + & 5 & + & 8 & - & 4 & - & 4 & + & 2 & + & 3 & - & 1 & - & 4 & + & 1 & + & 2 & + & 5 \\ \hline & 10 & & 4 & & 4 & & 3 & & 3 & & 2 & & 5 & & 2 & & 7 & & 5 \\ + & 3 & + & 1 & - & 4 & + & 2 & - & 4 & + & 3 & - & 1 & - & 4 & + & 5 & - & 4 & - & 3 \\ \hline & 6 & & 5 & & 2 & & 3 & & 4 & & 5 & & 3 & & 7 & & 1 & & 5 \end{array}$$

## Opérations Mixtes (H)

## Complétez les exercices suivants

$$\begin{array}{r}
 -2 \\
 -1 \\
 \hline
 -3
 \end{array}
 \quad
 \begin{array}{r}
 -5 \\
 -1 \\
 \hline
 -4
 \end{array}
 \quad
 \begin{array}{r}
 +3 \\
 +4 \\
 \hline
 +7
 \end{array}
 \quad
 \begin{array}{r}
 +4 \\
 +5 \\
 \hline
 +8
 \end{array}
 \quad
 \begin{array}{r}
 -7 \\
 -5 \\
 \hline
 -2
 \end{array}
 \quad
 \begin{array}{r}
 -8 \\
 -5 \\
 \hline
 -2
 \end{array}
 \quad
 \begin{array}{r}
 -4 \\
 -2 \\
 \hline
 -3
 \end{array}
 \quad
 \begin{array}{r}
 -4 \\
 -3 \\
 \hline
 -2
 \end{array}$$

$$\begin{array}{r}
 + \frac{1}{2} \\
 - \frac{6}{1} \\
 \hline
 - \frac{2}{1} \\
 - \frac{7}{3} \\
 + \frac{4}{2} \\
 + \frac{1}{1} \\
 \hline
 + \frac{3}{3} \\
 + \frac{3}{3} \\
 + \frac{1}{4} \\
 + \frac{4}{4}
 \end{array}$$

$$\begin{array}{r}
 + \frac{1}{2} \\
 - \frac{5}{4} \\
 \hline
 - \frac{5}{3} \\
 - \frac{9}{4} \\
 \hline
 - \frac{8}{4} \\
 + \frac{2}{2} \\
 \hline
 - \frac{8}{3} \\
 - \frac{6}{3} \\
 \hline
 + \frac{4}{5} \\
 - \frac{7}{5}
 \end{array}$$

$$\begin{array}{r}
 + \quad 3 \\
 + \quad 1 \\
 \hline
 - \quad 8 \\
 - \quad 3 \\
 \hline
 - \quad 5 \\
 - \quad 2 \\
 \hline
 - \quad 7 \\
 - \quad 5 \\
 \hline
 + \quad 4 \\
 + \quad 4 \\
 \hline
 - \quad 3 \\
 - \quad 3 \\
 \hline
 - \quad 4 \\
 - \quad 3 \\
 \hline
 + \quad 5 \\
 + \quad 1 \\
 \hline
 + \quad 2
 \end{array}$$

$$\begin{array}{r}
 -7 \\
 -4 \\
 \hline
 -3
 \end{array}
 \quad
 \begin{array}{r}
 +1 \\
 +4 \\
 \hline
 +4
 \end{array}
 \quad
 \begin{array}{r}
 +1 \\
 +4 \\
 \hline
 +3
 \end{array}
 \quad
 \begin{array}{r}
 -7 \\
 -3 \\
 \hline
 -3
 \end{array}
 \quad
 \begin{array}{r}
 +1 \\
 +4 \\
 \hline
 +5
 \end{array}
 \quad
 \begin{array}{r}
 +3 \\
 +5 \\
 \hline
 +3
 \end{array}
 \quad
 \begin{array}{r}
 -4 \\
 -3 \\
 \hline
 -3
 \end{array}
 \quad
 \begin{array}{r}
 -5 \\
 -3 \\
 \hline
 -3
 \end{array}$$

$$-\frac{9}{4} - \frac{5}{2} - \frac{5}{2} - \frac{9}{5} + \frac{5}{1} - \frac{10}{5} - \frac{9}{5} + \frac{3}{1} + \frac{3}{4} - \frac{9}{5}$$

$$-\frac{5}{1} + \frac{5}{2} - \frac{6}{1} - \frac{6}{3} - \frac{5}{2} - \frac{6}{3} - \frac{7}{3} - \frac{3}{1} - \frac{7}{5} + \frac{4}{3}$$

$$-\frac{3}{2} - \frac{9}{5} + \frac{5}{1} - \frac{10}{5} + \frac{5}{4} + \frac{3}{3} + \frac{5}{5} + \frac{2}{1} - \frac{10}{5} + \frac{2}{2}$$

$$-\frac{6}{5} + \frac{5}{4} - \frac{5}{3} - \frac{7}{3} + \frac{4}{2} - \frac{5}{2} - \frac{4}{3} + \frac{5}{5} + \frac{2}{1} - \frac{7}{4}$$

$$+ \frac{1}{3} + \frac{2}{3} + \frac{1}{1} + \frac{1}{1} - \frac{7}{3} + \frac{3}{5} + \frac{2}{5} + \frac{1}{4} + \frac{4}{3} - \frac{8}{3}$$

# Opérations Mixtes Solutions (H)

## Complétez les exercices suivants

$$\begin{array}{r}
 -2 \\
 -1 \\
 \hline
 1
 \end{array}
 \quad
 \begin{array}{r}
 -6 \\
 -3 \\
 \hline
 3
 \end{array}
 \quad
 \begin{array}{r}
 -5 \\
 -1 \\
 \hline
 4
 \end{array}
 \quad
 \begin{array}{r}
 +3 \\
 +4 \\
 \hline
 7
 \end{array}
 \quad
 \begin{array}{r}
 +4 \\
 +4 \\
 \hline
 8
 \end{array}
 \quad
 \begin{array}{r}
 -7 \\
 -5 \\
 \hline
 2
 \end{array}
 \quad
 \begin{array}{r}
 -8 \\
 -5 \\
 \hline
 3
 \end{array}
 \quad
 \begin{array}{r}
 -4 \\
 -2 \\
 \hline
 2
 \end{array}
 \quad
 \begin{array}{r}
 -4 \\
 -3 \\
 \hline
 1
 \end{array}
 \quad
 \begin{array}{r}
 -4 \\
 -2 \\
 \hline
 2
 \end{array}$$

$$\begin{array}{r} + \quad 1 \\ + \quad 2 \\ \hline 3 \end{array} \quad \begin{array}{r} - \quad 6 \\ - \quad 1 \\ \hline 5 \end{array} \quad \begin{array}{r} - \quad 2 \\ - \quad 1 \\ \hline 1 \end{array} \quad \begin{array}{r} - \quad 7 \\ - \quad 3 \\ \hline 4 \end{array} \quad \begin{array}{r} + \quad 4 \\ + \quad 2 \\ \hline 6 \end{array} \quad \begin{array}{r} + \quad 1 \\ + \quad 1 \\ \hline ? \end{array} \quad \begin{array}{r} + \quad 3 \\ + \quad 3 \\ \hline 6 \end{array} \quad \begin{array}{r} + \quad 3 \\ + \quad 3 \\ \hline 6 \end{array} \quad \begin{array}{r} + \quad 1 \\ + \quad 4 \\ \hline 5 \end{array} \quad \begin{array}{r} + \quad 4 \\ + \quad 4 \\ \hline 8 \end{array}$$

$$\begin{array}{r}
 + \frac{1}{2} \\
 - \frac{5}{4} \\
 - \frac{5}{3} \\
 - \frac{9}{4} \\
 - \frac{8}{4} \\
 + \frac{2}{4} \\
 = \frac{8}{5} \\
 - \frac{6}{3} \\
 + \frac{4}{9} \\
 - \frac{7}{2}
 \end{array}$$

$$\begin{array}{r}
 \underline{+} \quad 3 & \underline{-} \quad 8 & \underline{-} \quad 10 & \underline{-} \quad 7 & \underline{-} \quad 7 & \underline{+} \quad 4 & \underline{-} \quad 4 & \underline{-} \quad 4 & \underline{+} \quad 5 & \underline{+} \quad 2 \\
 + \quad 1 & - \quad 3 & - \quad 5 & - \quad 2 & - \quad 5 & + \quad 4 & - \quad 3 & - \quad 3 & + \quad 1 & + \quad 1 \\
 \hline
 4 & 5 & 5 & 5 & ? & 8 & 1 & 1 & 6 & 3
 \end{array}$$

$$\begin{array}{r}
 -7 & -5 & +1 & +4 & +1 & -7 & +1 & +3 & -4 & -5 \\
 -4 & -3 & +4 & +4 & +4 & -3 & +4 & +5 & -3 & -3 \\
 \hline
 3 & 2 & 5 & 8 & 5 & 4 & 5 & 8 & 1 & 2
 \end{array}$$

$$\begin{array}{r} \underline{-} \quad 9 \\ - \quad 4 \\ \hline \textcolor{red}{5} \end{array} \quad \begin{array}{r} \underline{-} \quad 5 \\ - \quad 2 \\ \hline \textcolor{red}{3} \end{array} \quad \begin{array}{r} \underline{-} \quad 5 \\ - \quad 2 \\ \hline \textcolor{red}{3} \end{array} \quad \begin{array}{r} \underline{-} \quad 9 \\ - \quad 5 \\ \hline \textcolor{red}{4} \end{array} \quad \begin{array}{r} + \quad 5 \\ \hline \textcolor{red}{6} \end{array} \quad \begin{array}{r} \underline{-} \quad 10 \\ - \quad 5 \\ \hline \textcolor{red}{5} \end{array} \quad \begin{array}{r} \underline{-} \quad 9 \\ - \quad 5 \\ \hline \textcolor{red}{4} \end{array} \quad \begin{array}{r} + \quad 1 \\ \hline \textcolor{red}{1} \end{array} \quad \begin{array}{r} + \quad 3 \\ \hline \textcolor{red}{7} \end{array} \quad \begin{array}{r} + \quad 4 \\ \hline \textcolor{red}{7} \end{array} \quad \begin{array}{r} \underline{-} \quad 9 \\ - \quad 5 \\ \hline \textcolor{red}{4} \end{array}$$

$$\begin{array}{ccccccccccccc}
 - & 5 & & + & 5 & & - & 6 & & - & 6 & & - & 5 & & - & 6 & & - & 7 & & - & 3 & & - & 7 & & + & 4 \\
 \hline
 - & 1 & & + & 2 & & - & 1 & & - & 3 & & - & 2 & & - & 3 & & - & 3 & & - & 1 & & - & 5 & & + & 3 \\
 & \textcolor{red}{4} & & & \textcolor{red}{7} & & & \textcolor{red}{5} & & & \textcolor{red}{3} & & & \textcolor{red}{2} & & & \textcolor{red}{3} & & & \textcolor{red}{4} & & & \textcolor{red}{2} & & & \textcolor{red}{7}
 \end{array}$$

$$\begin{array}{r}
 -\frac{3}{2} \\
 -\frac{9}{5} \\
 +\frac{5}{1} \\
 -\frac{10}{5} \\
 +\frac{5}{4} \\
 +\frac{3}{3} \\
 +\frac{5}{5} \\
 +\frac{2}{1} \\
 -\frac{10}{5} \\
 +\frac{2}{4}
 \end{array}$$

$$\begin{array}{r} \underline{-} \quad 6 \\ - \quad 5 \\ \hline 1 \end{array} \quad \begin{array}{r} + \quad 5 \\ + \quad 4 \\ \hline 9 \end{array} \quad \begin{array}{r} - \quad 5 \\ - \quad 3 \\ \hline 2 \end{array} \quad \begin{array}{r} - \quad 7 \\ - \quad 3 \\ \hline 4 \end{array} \quad \begin{array}{r} + \quad 4 \\ + \quad 2 \\ \hline 6 \end{array} \quad \begin{array}{r} - \quad 5 \\ - \quad 2 \\ \hline 3 \end{array} \quad \begin{array}{r} - \quad 4 \\ - \quad 3 \\ \hline 1 \end{array} \quad \begin{array}{r} + \quad 5 \\ + \quad 5 \\ \hline 10 \end{array} \quad \begin{array}{r} + \quad 2 \\ + \quad 1 \\ \hline 3 \end{array} \quad \begin{array}{r} - \quad 7 \\ - \quad 4 \\ \hline 3 \end{array}$$

$$\begin{array}{r}
 + 1 \\
 + 3 \\
 \hline
 + 2 \\
 + 3 \\
 \hline
 + 1 \\
 + 1 \\
 \hline
 - 7 \\
 - 3 \\
 \hline
 + 3 \\
 + 5 \\
 \hline
 + 2 \\
 + 5 \\
 \hline
 + 1 \\
 + 4 \\
 \hline
 + 4 \\
 + 3 \\
 \hline
 - 8 \\
 - 3
 \end{array}$$

— 5 — 2 — 2 — 1 — 0 — 7 — 5 — 7 — 5 —

## Opérations Mixtes (I)

## Complétez les exercices suivants

$$\begin{array}{r}
 + \quad 2 \\
 + \quad 1 \\
 \hline
 - \quad 6 \\
 - \quad 3 \\
 \hline
 - \quad 8 \\
 + \quad 2 \\
 - \quad 4 \\
 + \quad 3 \\
 - \quad 1 \\
 - \quad 5 \\
 \hline
 - \quad 5 \\
 - \quad 4 \\
 \hline
 - \quad 7 \\
 - \quad 2
 \end{array}$$

$$\begin{array}{r}
 -\frac{6}{2} \\
 -\frac{8}{3} \\
 -\frac{7}{2} \\
 -\frac{2}{1} \\
 +\frac{5}{5} \\
 +\frac{1}{5} \\
 +\frac{2}{2} \\
 +\frac{4}{5} \\
 +\frac{3}{1} \\
 -\frac{5}{4}
 \end{array}$$

$$\begin{array}{r}
 + \quad 4 \\
 + \quad 2 \\
 \hline
 + \quad 5 \\
 + \quad 4 \\
 \hline
 - \quad 6 \\
 - \quad 1 \\
 \hline
 + \quad 3 \\
 + \quad 2 \\
 \hline
 + \quad 1 \\
 + \quad 4 \\
 \hline
 - \quad 7 \\
 - \quad 2 \\
 \hline
 - \quad 6 \\
 - \quad 3 \\
 \hline
 - \quad 3 \\
 - \quad 2 \\
 \hline
 - \quad 10 \\
 - \quad 5 \\
 \hline
 + \quad 1 \\
 + \quad 3 \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 + \frac{5}{1} \\
 + \frac{2}{2} \\
 - \frac{5}{1} \\
 + \frac{3}{1} \\
 - \frac{7}{4} \\
 - \frac{2}{1} \\
 + \frac{3}{2} \\
 - \frac{2}{1} \\
 + \frac{3}{1} \\
 + \frac{4}{4}
 \end{array}$$

$$\begin{array}{r}
 + \frac{4}{1} \quad + \frac{4}{5} \quad - \frac{3}{1} \quad - \frac{7}{4} \quad + \frac{5}{1} \quad - \frac{7}{3} \quad + \frac{1}{4} \quad + \frac{1}{2} \quad + \frac{1}{3} \quad - \frac{5}{2}
 \end{array}$$

$$+ \begin{array}{r} 3 \\ 3 \end{array} - \begin{array}{r} 4 \\ 1 \end{array} - \begin{array}{r} 5 \\ 4 \end{array} + \begin{array}{r} 3 \\ 5 \end{array} - \begin{array}{r} 6 \\ 4 \end{array} - \begin{array}{r} 7 \\ 4 \end{array} - \begin{array}{r} 6 \\ 1 \end{array} + \begin{array}{r} 1 \\ 5 \end{array} + \begin{array}{r} 5 \\ 1 \end{array} - \begin{array}{r} 8 \\ 3 \end{array}$$

$$\begin{array}{r}
 -\frac{4}{2} \\
 -\frac{3}{1} \\
 -\frac{9}{5} \\
 -\frac{2}{1} \\
 +\frac{3}{3} \\
 -\frac{8}{5} \\
 +\frac{1}{4} \\
 +\frac{2}{5} \\
 +\frac{4}{5} \\
 +\frac{1}{5}
 \end{array}$$

$$+ \frac{1}{1} - \frac{5}{3} + \frac{3}{1} + \frac{4}{1} - \frac{4}{2} + \frac{3}{3} - \frac{6}{1} - \frac{8}{4} - \frac{5}{1} + \frac{1}{4}$$

$$+ \frac{5}{1} - \frac{5}{2} - \frac{3}{1} + \frac{3}{4} - \frac{6}{5} + \frac{5}{1} + \frac{1}{1} + \frac{2}{2} + \frac{3}{3} - \frac{6}{3}$$

$$\begin{array}{ccccccccccccc}
 + & 5 & & 1 & & - & 8 & & - & 5 & & - & 5 & & + & 3 & & + & 4 & & - & 6 & & + & 4 & & - & 4 \\
 + & 1 & & 1 & & - & 4 & & - & 3 & & - & 3 & & + & 1 & & + & 2 & & - & 3 & & + & 3 & & - & 3
 \end{array}$$

# Opérations Mixtes Solutions (I)

## Complétez les exercices suivants

# Opérations Mixtes (J)

## Complétez les exercices suivants

$$-\frac{5}{1} + \frac{5}{1} - \frac{5}{2} - \frac{5}{2} - \frac{5}{3} + \frac{1}{3} - \frac{5}{1} - \frac{5}{3} - \frac{6}{1} + \frac{1}{2}$$

$$\begin{array}{r}
 -2 \\
 -1 \\
 \hline
 -5
 \end{array}
 \quad
 \begin{array}{r}
 -8 \\
 -5 \\
 \hline
 -3
 \end{array}
 \quad
 \begin{array}{r}
 +1 \\
 +5 \\
 \hline
 +4
 \end{array}
 \quad
 \begin{array}{r}
 +5 \\
 +4 \\
 \hline
 +3
 \end{array}
 \quad
 \begin{array}{r}
 -7 \\
 -4 \\
 \hline
 -3
 \end{array}
 \quad
 \begin{array}{r}
 -8 \\
 -3 \\
 \hline
 -3
 \end{array}
 \quad
 \begin{array}{r}
 +2 \\
 +3 \\
 \hline
 +5
 \end{array}
 \quad
 \begin{array}{r}
 +3 \\
 +5 \\
 \hline
 +1
 \end{array}$$

$$\begin{array}{r}
 -\frac{5}{2} + \frac{2}{5} + \frac{4}{2} + \frac{3}{2} + \frac{5}{4} = \underline{\underline{-3}}
 \end{array}$$

$$\begin{array}{r}
 + \quad 5 \\
 + \quad 4 \\
 \hline
 - \quad 7 \\
 - \quad 4 \\
 \hline
 - \quad 10 \\
 - \quad 5 \\
 \hline
 + \quad 1 \\
 + \quad 4 \\
 \hline
 - \quad 4 \\
 - \quad 3 \\
 \hline
 + \quad 5 \\
 + \quad 3 \\
 \hline
 - \quad 7 \\
 - \quad 2 \\
 \hline
 + \quad 3 \\
 + \quad 4 \\
 \hline
 + \quad 2 \\
 + \quad 1 \\
 \hline
 + \quad 4 \\
 + \quad 2
 \end{array}$$

$$\begin{array}{r}
 + \quad 1 \\
 + \quad 3 \\
 \hline
 + \quad 5
 \end{array}
 \quad
 \begin{array}{r}
 - \quad 7 \\
 - \quad 4 \\
 \hline
 - \quad 2
 \end{array}
 \quad
 \begin{array}{r}
 - \quad 6 \\
 - \quad 4 \\
 \hline
 - \quad 2
 \end{array}
 \quad
 \begin{array}{r}
 - \quad 5 \\
 - \quad 2 \\
 \hline
 - \quad 4
 \end{array}
 \quad
 \begin{array}{r}
 - \quad 4 \\
 - \quad 2 \\
 \hline
 - \quad 2
 \end{array}
 \quad
 \begin{array}{r}
 - \quad 8 \\
 + \quad 2 \\
 \hline
 + \quad 3
 \end{array}
 \quad
 \begin{array}{r}
 + \quad 2 \\
 + \quad 1 \\
 \hline
 + \quad 1
 \end{array}
 \quad
 \begin{array}{r}
 - \quad 8 \\
 - \quad 5 \\
 \hline
 - \quad 5
 \end{array}$$

$$+ \begin{array}{r} 3 \\ 4 \end{array} + \begin{array}{r} 5 \\ 2 \end{array} + \begin{array}{r} 3 \\ 3 \end{array} - \begin{array}{r} 7 \\ 3 \end{array} - \begin{array}{r} 3 \\ 1 \end{array} + \begin{array}{r} 1 \\ 4 \end{array} - \begin{array}{r} 6 \\ 4 \end{array} + \begin{array}{r} 2 \\ 5 \end{array} - \begin{array}{r} 4 \\ 2 \end{array} + \begin{array}{r} 1 \\ 5 \end{array}$$

$$-\frac{5}{3} + \frac{3}{5} - \frac{4}{1} + \frac{2}{2} - \frac{10}{5} - \frac{5}{4} - \frac{6}{4} - \frac{5}{1} - \frac{6}{1} - \frac{5}{2}$$

$$- \frac{7}{4} + \frac{5}{1} - \frac{5}{1} - \frac{3}{1} - \frac{6}{3} + \frac{3}{3} - \frac{6}{1} + \frac{2}{3} + \frac{3}{5} - \frac{6}{2}$$

$$+ \frac{2}{1} - \frac{7}{3} + \frac{4}{3} + \frac{4}{5} + \frac{4}{3} - \frac{5}{1} + \frac{1}{3} - \frac{6}{3} + \frac{4}{5} - \frac{7}{4}$$

$$- \begin{array}{r} 7 \\ 5 \end{array} + \begin{array}{r} 3 \\ 2 \end{array} + \begin{array}{r} 5 \\ 1 \end{array} + \begin{array}{r} 4 \\ 4 \end{array} + \begin{array}{r} 5 \\ 1 \end{array} - \begin{array}{r} 9 \\ 5 \end{array} - \begin{array}{r} 6 \\ 1 \end{array} + \begin{array}{r} 4 \\ 4 \end{array} + \begin{array}{r} 5 \\ 3 \end{array} - \begin{array}{r} 6 \\ 4 \end{array}$$

# Opérations Mixtes Solutions (J)

## Complétez les exercices suivants

$$\begin{array}{r} -5 \\ \hline -1 \\ 4 \end{array} \quad \begin{array}{r} +5 \\ +1 \\ \hline 6 \end{array} \quad \begin{array}{r} -5 \\ -2 \\ \hline 3 \end{array} \quad \begin{array}{r} -5 \\ -2 \\ \hline 3 \end{array} \quad \begin{array}{r} -5 \\ -3 \\ \hline 2 \end{array} \quad \begin{array}{r} +1 \\ +3 \\ \hline 4 \end{array} \quad \begin{array}{r} -5 \\ -1 \\ \hline 4 \end{array} \quad \begin{array}{r} -5 \\ -3 \\ \hline 2 \end{array} \quad \begin{array}{r} -6 \\ -1 \\ \hline 5 \end{array} \quad \begin{array}{r} +1 \\ +2 \\ \hline 3 \end{array}$$

$$\begin{array}{r}
 -\frac{2}{1} & -\frac{7}{5} & -\frac{8}{5} & +\frac{1}{5} & +\frac{5}{4} & -\frac{7}{4} & -\frac{8}{3} & +\frac{2}{3} & +\frac{3}{5} & -\frac{5}{1} \\
 \hline
 1 & 2 & 3 & 6 & 9 & 3 & 5 & 5 & 8 & 4
 \end{array}$$

$$\begin{array}{r} \underline{-} \quad \underline{+} \quad \underline{+} \quad \underline{+} \quad \underline{+} \quad \underline{-} \quad \underline{-} \quad \underline{-} \quad \underline{+} \quad \underline{-} \\ \frac{5}{3} \quad \frac{2}{7} \quad \frac{4}{6} \quad \frac{3}{5} \quad \frac{5}{9} \quad \frac{8}{5} \quad \frac{7}{2} \quad \frac{2}{1} \quad \frac{4}{8} \quad \frac{6}{2} \end{array}$$

$$\begin{array}{r} \underline{+} & 5 & - & 7 & - & 10 & + & 1 & - & 4 & + & 5 & - & 7 & + & 3 & + & 2 & + & 4 \\ \underline{4} & & \underline{-} & \underline{4} & \underline{-} & \underline{5} & \underline{+} & \underline{4} & \underline{-} & \underline{3} & \underline{+} & \underline{3} & \underline{-} & \underline{2} & \underline{+} & \underline{4} & \underline{+} & \underline{1} & \underline{+} & \underline{2} \\ 9 & & 3 & & 5 & & 5 & & 1 & & 8 & & 5 & & 7 & & 3 & & 3 & & 6 \end{array}$$

$$\begin{array}{r} \frac{1}{+ 3} & \frac{5}{+ 5} & \frac{7}{- 4} & \frac{6}{- 4} & \frac{5}{- 2} & \frac{4}{- 2} & \frac{8}{- 4} & \frac{3}{+ 2} & \frac{2}{+ 1} & \frac{8}{- 5} \\ \hline \frac{4}{\textcolor{red}{4}} & \frac{10}{\textcolor{red}{10}} & \frac{3}{\textcolor{red}{3}} & \frac{2}{\textcolor{red}{2}} & \frac{3}{\textcolor{red}{3}} & \frac{2}{\textcolor{red}{2}} & \frac{4}{\textcolor{red}{4}} & \frac{5}{\textcolor{red}{5}} & \frac{3}{\textcolor{red}{3}} & \frac{3}{\textcolor{red}{3}} \end{array}$$

$$\begin{array}{r} \underline{+} \\ \begin{array}{r} 3 \\ + 4 \\ \hline 7 \end{array} & \begin{array}{r} 5 \\ + 2 \\ \hline 7 \end{array} & \begin{array}{r} 3 \\ + 3 \\ \hline 6 \end{array} & \begin{array}{r} 7 \\ - 3 \\ \hline 4 \end{array} & \begin{array}{r} 3 \\ - 1 \\ \hline 2 \end{array} & \begin{array}{r} 1 \\ + 4 \\ \hline 5 \end{array} & \begin{array}{r} 6 \\ - 4 \\ \hline 2 \end{array} & \begin{array}{r} 2 \\ + 5 \\ \hline 7 \end{array} & \begin{array}{r} 4 \\ - 2 \\ \hline 2 \end{array} & \begin{array}{r} 1 \\ + 5 \\ \hline 6 \end{array} \end{array}$$

$$\begin{array}{r} \underline{-} \quad \underline{+} \quad \underline{-} \quad \underline{+} \quad \underline{-} \quad \underline{-} \\ 5 \quad 3 \quad 4 \quad 2 \quad 10 \quad 5 \quad 6 \quad 5 \quad 6 \quad 5 \\ -3 \quad +5 \quad -1 \quad +2 \quad -5 \quad -4 \quad -4 \quad -1 \quad -1 \quad -2 \\ \hline 2 \quad 8 \quad 3 \quad 4 \quad 5 \quad 1 \quad 2 \quad 4 \quad 5 \quad 3 \end{array}$$

$$\begin{array}{r}
 -\frac{7}{4} + \frac{5}{6} - \frac{5}{4} - \frac{3}{1} - \frac{6}{3} + \frac{3}{6} - \frac{6}{1} + \frac{2}{3} + \frac{3}{5} - \frac{6}{2} \\
 \hline
 3 \quad 6 \quad 4 \quad 2 \quad 3 \quad 6 \quad 5 \quad 5 \quad 8 \quad 4
 \end{array}$$

$$\begin{array}{r} \underline{+} & 2 & - & 7 & + & 4 & + & 4 & + & 4 & - & 5 & + & 1 & - & 6 & + & 4 & - & 7 \\ \underline{+} & 1 & - & 3 & + & 3 & + & 5 & + & 3 & - & 1 & + & 3 & - & 3 & + & 5 & - & 4 \\ \hline & 3 & & 4 & & 7 & & 9 & & 7 & & 4 & & 4 & & 3 & & 9 & & 3 \end{array}$$

$$\begin{array}{r} \underline{-} \quad \underline{+} \quad \underline{+} \quad \underline{+} \quad \underline{+} \quad \underline{-} \quad \underline{-} \quad \underline{+} \quad \underline{+} \quad \underline{-} \\ \frac{7}{5} \quad \frac{3}{2} \quad \frac{5}{1} \quad \frac{4}{4} \quad \frac{5}{1} \quad \frac{9}{5} \quad \frac{6}{1} \quad \frac{4}{8} \quad \frac{5}{3} \quad \frac{6}{4} \\ \underline{?} \quad \underline{5} \quad \underline{6} \quad \underline{8} \quad \underline{6} \quad \underline{4} \quad \underline{5} \quad \underline{8} \quad \underline{8} \quad \underline{?} \end{array}$$