

Opérations Mixtes (A)

Complétez les exercices suivants

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

$$\begin{array}{r}
 - 19 \\
 - 10 \\
 \times 1 \\
 \hline
 - 5
 \end{array}$$

$$+ \frac{8}{9} + \frac{5}{5} \times \frac{2}{9} - \frac{5}{4} + \frac{2}{9} + \frac{5}{7} - \frac{18}{8} + \frac{10}{4} \times \frac{9}{10} - \frac{10}{2}$$

$$\times \frac{9}{10} - \frac{13}{8} \times \frac{9}{5} + \frac{7}{5} \times \frac{5}{1} \times \frac{6}{6} \times \frac{7}{10} \times \frac{2}{6} + \frac{8}{4} \times \frac{6}{9}$$

$$+ \frac{1}{1} + \frac{1}{10} + \frac{7}{9} - \frac{11}{9} + \frac{8}{9} - \frac{11}{8} + \frac{8}{9} + \frac{2}{1} \times \frac{1}{4} \times \frac{10}{6}$$

$$-\frac{13}{8} \times \frac{5}{10} + \frac{1}{8} \times \frac{10}{2} + \frac{6}{7} = \frac{16}{8} + \frac{10}{4} \times \frac{9}{9} + \frac{8}{1} \times \frac{2}{4}$$

$$= \frac{4}{2} + \frac{4}{3} - \frac{14}{5} + \frac{3}{1} - \frac{13}{10} \times \frac{10}{1} = \frac{12}{3} + \frac{7}{5} + \frac{4}{7} = \frac{17}{8}$$

$$= \frac{9}{6} \times \frac{5}{5} = \frac{18}{10} \times \frac{5}{4} + \frac{10}{2} + \frac{1}{9} \times \frac{4}{5} + \frac{5}{6} + \frac{6}{3} + \frac{1}{9}$$

$$= \frac{5}{1} + \frac{4}{5} = \frac{5}{2} \times \frac{1}{9} - \frac{6}{4} = \frac{11}{5} \times \frac{2}{1} + \frac{2}{8} \times \frac{9}{4} + \frac{7}{6}$$

$$= \frac{8}{5} \times \frac{2}{4} = \frac{8}{1} \times \frac{10}{7} + \frac{7}{10} + \frac{6}{6} = \frac{10}{1} - \frac{11}{4} \times \frac{2}{2} \times \frac{6}{7}$$

Opérations Mixtes Solutions (A)

Complétez les exercices suivants

$$\begin{array}{r}
 \begin{array}{r} 5 \\ \times 10 \\ \hline 50 \end{array} \quad \begin{array}{r} 7 \\ \times 8 \\ \hline 56 \end{array} \quad \begin{array}{r} 2 \\ + 10 \\ \hline 12 \end{array} \quad \begin{array}{r} 9 \\ + 5 \\ \hline 14 \end{array} \quad \begin{array}{r} 8 \\ - 6 \\ \hline 2 \end{array} \quad \begin{array}{r} 2 \\ + 6 \\ \hline 8 \end{array} \quad \begin{array}{r} 9 \\ - 4 \\ \hline 5 \end{array} \quad \begin{array}{r} 10 \\ \times 3 \\ \hline 30 \end{array} \quad \begin{array}{r} 14 \\ - 7 \\ \hline 7 \end{array} \quad \begin{array}{r} 9 \\ + 8 \\ \hline 17 \end{array} \\
 \begin{array}{r} 19 \\ - 10 \\ \hline 9 \end{array} \quad \begin{array}{r} 4 \\ \times 1 \\ \hline 4 \end{array} \quad \begin{array}{r} 10 \\ - 5 \\ \hline 5 \end{array} \quad \begin{array}{r} 3 \\ + 3 \\ \hline 6 \end{array} \quad \begin{array}{r} 9 \\ + 8 \\ \hline 17 \end{array} \quad \begin{array}{r} 9 \\ - 7 \\ \hline 2 \end{array} \quad \begin{array}{r} 2 \\ \times 3 \\ \hline 6 \end{array} \quad \begin{array}{r} 18 \\ - 8 \\ \hline 10 \end{array} \quad \begin{array}{r} 9 \\ + 8 \\ \hline 17 \end{array} \quad \begin{array}{r} 5 \\ \times 6 \\ \hline 30 \end{array} \\
 \begin{array}{r} 8 \\ + 9 \\ \hline 17 \end{array} \quad \begin{array}{r} 5 \\ + 5 \\ \hline 10 \end{array} \quad \begin{array}{r} 2 \\ \times 9 \\ \hline 18 \end{array} \quad \begin{array}{r} 5 \\ - 4 \\ \hline 1 \end{array} \quad \begin{array}{r} 2 \\ + 9 \\ \hline 11 \end{array} \quad \begin{array}{r} 5 \\ + 7 \\ \hline 12 \end{array} \quad \begin{array}{r} 18 \\ - 8 \\ \hline 10 \end{array} \quad \begin{array}{r} 10 \\ + 4 \\ \hline 14 \end{array} \quad \begin{array}{r} 9 \\ \times 10 \\ \hline 90 \end{array} \quad \begin{array}{r} 10 \\ - 2 \\ \hline 8 \end{array} \\
 \begin{array}{r} 9 \\ \times 10 \\ \hline 90 \end{array} \quad \begin{array}{r} 13 \\ - 8 \\ \hline 5 \end{array} \quad \begin{array}{r} 9 \\ \times 5 \\ \hline 45 \end{array} \quad \begin{array}{r} 7 \\ + 5 \\ \hline 12 \end{array} \quad \begin{array}{r} 5 \\ \times 1 \\ \hline 5 \end{array} \quad \begin{array}{r} 6 \\ \times 6 \\ \hline 36 \end{array} \quad \begin{array}{r} 7 \\ \times 10 \\ \hline 70 \end{array} \quad \begin{array}{r} 2 \\ \times 6 \\ \hline 12 \end{array} \quad \begin{array}{r} 8 \\ + 4 \\ \hline 12 \end{array} \quad \begin{array}{r} 6 \\ \times 9 \\ \hline 54 \end{array} \\
 \begin{array}{r} 1 \\ + 1 \\ \hline 2 \end{array} \quad \begin{array}{r} 1 \\ + 10 \\ \hline 11 \end{array} \quad \begin{array}{r} 7 \\ + 9 \\ \hline 16 \end{array} \quad \begin{array}{r} 11 \\ - 9 \\ \hline 2 \end{array} \quad \begin{array}{r} 8 \\ + 9 \\ \hline 17 \end{array} \quad \begin{array}{r} 11 \\ - 8 \\ \hline 3 \end{array} \quad \begin{array}{r} 8 \\ + 9 \\ \hline 17 \end{array} \quad \begin{array}{r} 2 \\ + 1 \\ \hline 3 \end{array} \quad \begin{array}{r} 1 \\ \times 4 \\ \hline 4 \end{array} \quad \begin{array}{r} 10 \\ \times 6 \\ \hline 60 \end{array} \\
 \begin{array}{r} 13 \\ - 8 \\ \hline 5 \end{array} \quad \begin{array}{r} 5 \\ \times 10 \\ \hline 50 \end{array} \quad \begin{array}{r} 1 \\ + 8 \\ \hline 9 \end{array} \quad \begin{array}{r} 10 \\ \times 2 \\ \hline 20 \end{array} \quad \begin{array}{r} 6 \\ + 7 \\ \hline 13 \end{array} \quad \begin{array}{r} 16 \\ - 8 \\ \hline 8 \end{array} \quad \begin{array}{r} 10 \\ + 4 \\ \hline 14 \end{array} \quad \begin{array}{r} 9 \\ \times 9 \\ \hline 81 \end{array} \quad \begin{array}{r} 8 \\ + 1 \\ \hline 9 \end{array} \quad \begin{array}{r} 2 \\ \times 4 \\ \hline 8 \end{array} \\
 \begin{array}{r} 4 \\ - 2 \\ \hline 2 \end{array} \quad \begin{array}{r} 4 \\ + 3 \\ \hline 7 \end{array} \quad \begin{array}{r} 14 \\ - 5 \\ \hline 9 \end{array} \quad \begin{array}{r} 3 \\ + 1 \\ \hline 4 \end{array} \quad \begin{array}{r} 13 \\ - 10 \\ \hline 3 \end{array} \quad \begin{array}{r} 10 \\ \times 1 \\ \hline 10 \end{array} \quad \begin{array}{r} 12 \\ - 3 \\ \hline 9 \end{array} \quad \begin{array}{r} 7 \\ + 5 \\ \hline 12 \end{array} \quad \begin{array}{r} 4 \\ + 7 \\ \hline 11 \end{array} \quad \begin{array}{r} 17 \\ - 8 \\ \hline 9 \end{array} \\
 \begin{array}{r} 9 \\ - 6 \\ \hline 3 \end{array} \quad \begin{array}{r} 5 \\ \times 5 \\ \hline 25 \end{array} \quad \begin{array}{r} 18 \\ - 10 \\ \hline 8 \end{array} \quad \begin{array}{r} 5 \\ \times 4 \\ \hline 20 \end{array} \quad \begin{array}{r} 10 \\ + 2 \\ \hline 12 \end{array} \quad \begin{array}{r} 1 \\ + 9 \\ \hline 10 \end{array} \quad \begin{array}{r} 4 \\ \times 5 \\ \hline 20 \end{array} \quad \begin{array}{r} 5 \\ + 6 \\ \hline 11 \end{array} \quad \begin{array}{r} 6 \\ + 3 \\ \hline 9 \end{array} \quad \begin{array}{r} 1 \\ + 9 \\ \hline 10 \end{array} \\
 \begin{array}{r} 5 \\ - 1 \\ \hline 4 \end{array} \quad \begin{array}{r} 4 \\ + 5 \\ \hline 9 \end{array} \quad \begin{array}{r} 5 \\ - 2 \\ \hline 3 \end{array} \quad \begin{array}{r} 1 \\ \times 9 \\ \hline 9 \end{array} \quad \begin{array}{r} 6 \\ - 4 \\ \hline 2 \end{array} \quad \begin{array}{r} 11 \\ - 5 \\ \hline 6 \end{array} \quad \begin{array}{r} 2 \\ \times 1 \\ \hline 2 \end{array} \quad \begin{array}{r} 2 \\ + 8 \\ \hline 10 \end{array} \quad \begin{array}{r} 9 \\ \times 4 \\ \hline 36 \end{array} \quad \begin{array}{r} 7 \\ + 6 \\ \hline 13 \end{array} \\
 \begin{array}{r} 8 \\ - 5 \\ \hline 3 \end{array} \quad \begin{array}{r} 2 \\ \times 4 \\ \hline 8 \end{array} \quad \begin{array}{r} 8 \\ - 1 \\ \hline 7 \end{array} \quad \begin{array}{r} 10 \\ \times 7 \\ \hline 70 \end{array} \quad \begin{array}{r} 7 \\ + 10 \\ \hline 17 \end{array} \quad \begin{array}{r} 6 \\ + 6 \\ \hline 12 \end{array} \quad \begin{array}{r} 10 \\ - 1 \\ \hline 9 \end{array} \quad \begin{array}{r} 11 \\ - 4 \\ \hline 7 \end{array} \quad \begin{array}{r} 2 \\ \times 2 \\ \hline 4 \end{array} \quad \begin{array}{r} 6 \\ \times 7 \\ \hline 42 \end{array}
 \end{array}$$

Opérations Mixtes (B)

Complétez les exercices suivants

$$\begin{array}{r}
 + \quad 6 \\
 + \quad 4 \\
 \hline
 \times \quad 8 \\
 \times \quad 3 \\
 \hline
 - \quad 12 \\
 - \quad 4 \\
 \hline
 \times \quad 8 \\
 \times \quad 6 \\
 \hline
 - \quad 15 \\
 - \quad 5 \\
 \hline
 + \quad 10 \\
 + \quad 4 \\
 \hline
 - \quad 13 \\
 - \quad 10 \\
 \hline
 + \quad 5 \\
 + \quad 2 \\
 \hline
 + \quad 3 \\
 + \quad 1 \\
 \hline
 - \quad 15 \\
 - \quad 6
 \end{array}$$

$$\begin{array}{r}
 + \quad 7 & \times \quad 9 & + \quad 10 & + \quad 3 & \times \quad 2 & - \quad 8 & - \quad 12 & + \quad 2 & + \quad 4 & \times \quad 5 \\
 \underline{+} \quad 2 & \underline{\times} \quad 1 & \underline{+} \quad 7 & \underline{+} \quad 2 & \underline{\times} \quad 10 & \underline{-} \quad 4 & \underline{-} \quad 2 & \underline{+} \quad 10 & \underline{+} \quad 4 & \underline{\times} \quad 4
 \end{array}$$

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

$$\begin{array}{r}
 -12 & \times 9 & \times 4 & -7 & -9 & \times 2 & \times 6 & -10 & -12 & +10 \\
 -9 & \times 8 & \times 3 & -5 & -4 & \times 10 & \times 7 & -2 & -3 & \\
 \hline
 & & & & & & & & &
 \end{array}$$

$$\begin{array}{r}
 + \quad 4 & \times \quad 8 & \times \quad 3 & - \quad 12 & + \quad 9 & \times \quad 4 & \times \quad 3 & - \quad 7 & + \quad 3 & + \quad 6 \\
 \underline{+} \quad 3 & \underline{\times} \quad 3 & \underline{\times} \quad 1 & \underline{-} \quad 6 & \underline{+} \quad 3 & \underline{\times} \quad 6 & \underline{\times} \quad 4 & \underline{-} \quad 5 & \underline{+} \quad 5 & \underline{+} \quad 10
 \end{array}$$

$$\begin{array}{r}
 -10 \\
 \underline{-1} \\
 -16 \\
 \underline{-6} \\
 \times 2 \\
 \hline
 5 \\
 + 2 \\
 \hline
 9 \\
 + 6 \\
 \hline
 5 \\
 \times 2 \\
 \hline
 10 \\
 \times 2 \\
 \hline
 9 \\
 + 8 \\
 \hline
 1 \\
 + 5 \\
 \hline
 3 \\
 \times 6 \\
 \hline
 6
 \end{array}$$

$$\begin{array}{r}
 \times 7 & \underline{-} 14 & \times 5 & \underline{-} 11 & \underline{-} 12 & \times 8 & \underline{-} 7 & \underline{-} 12 & \underline{-} 8 & \times 8 \\
 \underline{\times 2} & \underline{- 5} & \underline{\times 3} & \underline{- 2} & \underline{- 6} & \underline{\times 6} & \underline{- 4} & \underline{- 7} & \underline{- 7} & \underline{\times 10}
 \end{array}$$

$$\begin{array}{r}
 \times \quad 3 & \quad - \quad 8 & \quad - \quad 10 & \quad - \quad 7 & \quad + \quad 5 & \quad \times \quad 5 & \quad \times \quad 10 & \quad \times \quad 4 & \quad + \quad 4 & \quad \times \quad 5 \\
 \hline
 \times \quad 4 & \quad - \quad 5 & \quad - \quad 4 & \quad - \quad 5 & \quad + \quad 7 & \quad \times \quad 7 & \quad \times \quad 7 & \quad \times \quad 10 & \quad + \quad 3 & \quad \times \quad 4
 \end{array}$$

$$\begin{array}{r}
 \underline{-} \quad \underline{\times} \quad \underline{+} \quad \underline{\times} \quad \underline{-} \quad \underline{+} \\
 17 \quad 12 \quad 4 \quad 3 \quad 12 \quad 2 \quad 3 \quad 4 \quad 8 \quad 3 \\
 -7 \quad -6 \quad \times 10 \quad \times 1 \quad -3 \quad +4 \quad \times 4 \quad -2 \quad +2 \quad +4
 \end{array}$$

$$\begin{array}{r}
 + \quad 6 \\
 + \quad 9 \\
 \hline
 \times \quad 6 \\
 \times \quad 8 \\
 \hline
 \times \quad 10 \\
 \times \quad 3 \\
 \hline
 \times \quad 8 \\
 \times \quad 5 \\
 \hline
 \times \quad 6 \\
 + \quad 1 \\
 \hline
 - \quad 18 \\
 - \quad 8 \\
 \hline
 - \quad 11 \\
 - \quad 6 \\
 \hline
 \times \quad 4 \\
 \times \quad 6 \\
 \hline
 - \quad 4 \\
 - \quad 1
 \end{array}$$

Opérations Mixtes Solutions (B)

Complétez les exercices suivants

$$\begin{array}{r}
 + 6 & \times 8 & - 12 & \times 8 & - 15 & + 10 & - 13 & + 5 & + 3 & - 15 \\
 \hline
 4 & \times 3 & - 4 & \times 6 & - 5 & + 4 & - 10 & + 2 & + 1 & - 6 \\
 \hline
 10 & 24 & 8 & 48 & 10 & 14 & 3 & 7 & 4 & 9
 \end{array}$$

$$\begin{array}{r}
 + 7 & \times 9 & + 10 & + 3 & - 2 & - 8 & - 12 & + 2 & + 4 & \times 5 \\
 \hline
 2 & \times 1 & + 7 & + 2 & \times 10 & - 4 & - 2 & + 10 & 4 & 20 \\
 \hline
 9 & 9 & 17 & 5 & 20 & 4 & 10 & 12 & 8 & 20
 \end{array}$$

$$\begin{array}{r}
 + 8 & - 9 & + 1 & + 6 & - 2 & - 8 & - 9 & + 3 & - 6 & + 9 \\
 \hline
 5 & - 6 & + 1 & + 4 & \times 7 & - 5 & \times 4 & + 10 & - 5 & + 1 \\
 \hline
 13 & 3 & 2 & 10 & 14 & 3 & 36 & 13 & 1 & 10
 \end{array}$$

$$\begin{array}{r}
 - 12 & \times 9 & \times 4 & - 7 & - 9 & - 2 & - 6 & - 10 & - 12 & + 10 \\
 \hline
 9 & \times 8 & \times 3 & - 5 & - 4 & \times 10 & \times 7 & - 2 & - 3 & + 10 \\
 \hline
 3 & 72 & 12 & 2 & 5 & 20 & 42 & 8 & 9 & 20
 \end{array}$$

$$\begin{array}{r}
 + 4 & \times 8 & \times 3 & - 12 & + 9 & \times 4 & \times 3 & - 7 & + 3 & + 6 \\
 \hline
 3 & \times 3 & \times 1 & - 6 & + 3 & \times 6 & \times 4 & - 5 & + 5 & + 10 \\
 \hline
 7 & 24 & 3 & 6 & 12 & 24 & 12 & 2 & 8 & 16
 \end{array}$$

$$\begin{array}{r}
 - 10 & - 16 & \times 5 & - 9 & - 5 & - 10 & - 9 & - 1 & + 3 & + 6 \\
 \hline
 1 & - 6 & \times 2 & + 2 & + 6 & \times 2 & \times 2 & + 8 & 5 & \times 6 \\
 \hline
 9 & 10 & 10 & 11 & 11 & 20 & 18 & 9 & 8 & 36
 \end{array}$$

$$\begin{array}{r}
 \times 7 & - 14 & \times 5 & - 11 & - 12 & - 8 & - 7 & - 12 & - 8 & + 8 \\
 \hline
 2 & - 5 & \times 3 & - 2 & - 6 & \times 6 & - 4 & - 7 & 7 & \times 10 \\
 \hline
 14 & 9 & 15 & 9 & 6 & 48 & 3 & 5 & 1 & 80
 \end{array}$$

$$\begin{array}{r}
 \times 3 & - 8 & - 10 & - 7 & - 5 & - 5 & - 10 & - 4 & + 4 & + 5 \\
 \hline
 4 & - 5 & - 4 & - 5 & + 7 & \times 7 & \times 7 & 10 & 7 & \times 4 \\
 \hline
 12 & 3 & 6 & 2 & 12 & 35 & 70 & 40 & 7 & 20
 \end{array}$$

$$\begin{array}{r}
 - 17 & - 12 & \times 4 & - 3 & - 12 & - 2 & - 3 & - 4 & + 8 & + 3 \\
 \hline
 7 & - 6 & \times 10 & \times 1 & - 3 & + 4 & \times 4 & - 2 & 2 & + 4 \\
 \hline
 10 & 6 & 40 & 3 & 9 & 6 & 12 & 2 & 10 & 7
 \end{array}$$

$$\begin{array}{r}
 + 6 & \times 6 & \times 10 & \times 8 & \times 6 & + 3 & - 18 & - 11 & + 4 & + 4 \\
 \hline
 9 & \times 8 & \times 3 & \times 5 & \times 6 & 1 & 8 & 6 & 24 & 1 \\
 \hline
 15 & 48 & 30 & 40 & 36 & 4 & 10 & 5 & 24 & 3
 \end{array}$$

Opérations Mixtes (C)

Complétez les exercices suivants

$$\begin{array}{r}
 + \quad 4 & - \quad 13 & - \quad 12 & \times \quad 10 & \times \quad 2 & - \quad 6 & + \quad 8 & - \quad 9 & - \quad 10 & + \quad 2 \\
 \hline
 + \quad 7 & - \quad 5 & - \quad 3 & \times \quad 2 & \times \quad 7 & - \quad 3 & + \quad 6 & - \quad 4 & - \quad 6 & + \quad 2
 \end{array}$$

$$\begin{array}{r}
 - 13 \\
 - 8 \\
 \hline
 + 5 \\
 + 3 \\
 \hline
 - 7 \\
 \times 3 \\
 \hline
 \times 10 \\
 \hline
 - 8 \\
 + 10 \\
 \hline
 + 3 \\
 + 3 \\
 \hline
 + 4 \\
 + 9 \\
 \hline
 \end{array}$$

$$\begin{array}{ccccccccccccc} \times & 4 & - & 12 & - & 8 & \times & 8 & - & 16 & + & 6 & + & 9 & + & 8 & - & 7 & \times & 1 \\ \times & 6 & - & 5 & - & 7 & \times & 7 & - & 10 & + & 10 & + & 6 & + & 8 & - & 4 & \times & 4 \end{array}$$

$$+ \frac{1}{8} \times \frac{3}{9} - \frac{13}{6} + \frac{6}{7} - \frac{13}{6} \times \frac{2}{5} - \frac{9}{8} - \frac{12}{3} - \frac{16}{10} \times \frac{5}{1}$$

$$+ \begin{array}{r} 4 \\ 7 \end{array} + \begin{array}{r} 7 \\ 6 \end{array} + \begin{array}{r} 4 \\ 4 \end{array} \times \begin{array}{r} 4 \\ 8 \end{array} \times \begin{array}{r} 9 \\ 3 \end{array} \times \begin{array}{r} 9 \\ 2 \end{array} - \begin{array}{r} 11 \\ 5 \end{array} + \begin{array}{r} 6 \\ 2 \end{array} \times \begin{array}{r} 6 \\ 1 \end{array} \times \begin{array}{r} 9 \\ 9 \end{array}$$

$$= \frac{9}{4} \times \frac{2}{4} + \frac{1}{9} = \frac{16}{7} - \frac{4}{1} \times \frac{4}{10} + \frac{3}{1} \times \frac{10}{9} \times \frac{10}{1} - \frac{12}{4}$$

$$\times \frac{6}{10} \quad \times \frac{4}{9} \quad + \frac{9}{3} \quad \times \frac{3}{9} \quad \times \frac{2}{6} \quad \times \frac{3}{2} \quad \times \frac{1}{4} \quad + \frac{7}{2} \quad + \frac{10}{9} \quad \times \frac{7}{7}$$

$$= \frac{7}{2} = \frac{14}{10} = \frac{15}{6} + \frac{8}{2} + \frac{8}{9} = \frac{15}{9} + \frac{5}{7} = \frac{3}{1} \times \frac{10}{1} \times \frac{9}{8}$$

$$-\frac{15}{6} + \frac{7}{5} - \frac{2}{1} \times \frac{2}{3} - \frac{11}{10} \times \frac{9}{2} + \frac{1}{1} \times \frac{8}{7} \times \frac{4}{8} = -\frac{12}{3}$$

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

Opérations Mixtes Solutions (C)

Complétez les exercices suivants

$$\begin{array}{r}
 4 & -13 & 12 & 10 & 2 & 6 & 8 & 9 & 10 & 2 \\
 +7 & -5 & -3 & \times 2 & \times 7 & -3 & +6 & -4 & -6 & +2 \\
 \hline
 11 & 8 & 9 & 20 & 14 & 3 & 14 & 5 & 4 & 4
 \end{array}$$

$$\begin{array}{r}
 13 & 5 & 15 & 9 & 6 & 10 & 8 & 3 & 4 & 4 \\
 -8 & +3 & -7 & \times 3 & \times 10 & -8 & +10 & +3 & +3 & +9 \\
 \hline
 5 & 8 & 8 & 27 & 60 & 2 & 18 & 6 & 7 & 13
 \end{array}$$

$$\begin{array}{r}
 4 & 12 & 8 & 8 & 16 & 6 & 9 & 8 & 7 & 1 \\
 \times 6 & -5 & -7 & \times 7 & -10 & +10 & +6 & +8 & -4 & \times 4 \\
 \hline
 24 & 7 & 1 & 56 & 6 & 16 & 15 & 16 & 3 & 4
 \end{array}$$

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

$$\begin{array}{r}
 4 & 7 & 4 & 4 & 9 & 9 & 11 & 6 & 6 & 9 \\
 +7 & +6 & +4 & \times 8 & \times 3 & \times 2 & -5 & +2 & \times 1 & \times 9 \\
 \hline
 11 & 13 & 8 & 32 & 27 & 18 & 6 & 8 & 6 & 81
 \end{array}$$

$$\begin{array}{r}
 9 & 2 & 1 & 16 & 4 & 4 & 3 & 10 & 10 & 12 \\
 -4 & \times 4 & +9 & -7 & -1 & \times 10 & +1 & \times 9 & \times 1 & -4 \\
 \hline
 5 & 8 & 10 & 9 & 3 & 40 & 4 & 90 & 10 & 8
 \end{array}$$

$$\begin{array}{r}
 6 & 4 & 9 & 3 & 2 & 3 & 1 & 7 & 10 & 7 \\
 \times 10 & \times 9 & +3 & \times 9 & \times 6 & \times 2 & \times 4 & +2 & +9 & \times 7 \\
 \hline
 60 & 36 & 12 & 27 & 12 & 6 & 4 & 9 & 19 & 49
 \end{array}$$

$$\begin{array}{r}
 7 & 14 & 15 & 8 & 8 & 15 & 5 & 3 & 10 & 9 \\
 -2 & -10 & -6 & +2 & +9 & -9 & +7 & -1 & \times 1 & \times 8 \\
 \hline
 5 & 4 & 9 & 10 & 17 & 6 & 12 & 2 & 10 & 72
 \end{array}$$

$$\begin{array}{r}
 15 & 7 & 2 & 2 & 11 & 9 & 1 & 8 & 4 & 12 \\
 -6 & +5 & -1 & \times 3 & -10 & \times 2 & +1 & \times 7 & \times 8 & -3 \\
 \hline
 9 & 12 & 1 & 6 & 1 & 18 & 2 & 56 & 32 & 9
 \end{array}$$

$$\begin{array}{r}
 2 & 7 & 5 & 7 & 9 & 9 & 5 & 3 & 7 & 11 \\
 \times 3 & +8 & +6 & +1 & +2 & -1 & -2 & \times 5 & \times 7 & -1 \\
 \hline
 6 & 15 & 11 & 8 & 11 & 8 & 3 & 15 & 49 & 10
 \end{array}$$

Opérations Mixtes (D)

Complétez les exercices suivants

$$\begin{array}{r}
 -\frac{12}{7} \\
 -\frac{6}{5} \\
 \times \frac{10}{10} \\
 +\frac{3}{7} \\
 \times \frac{6}{9} \\
 +\frac{10}{4} \\
 +\frac{7}{3} \\
 +\frac{2}{2} \\
 \times \frac{1}{8} \\
 +\frac{2}{5}
 \end{array}$$

$$\begin{array}{r}
 + \quad 1 \\
 + \quad 5 \\
 \hline
 + \quad 7 \\
 + \quad 6 \\
 \hline
 - \quad 9 \\
 - \quad 9 \\
 \hline
 \times \quad 2 \\
 \times \quad 2 \\
 \hline
 - \quad 13 \\
 - \quad 9 \\
 \hline
 + \quad 8 \\
 + \quad 8 \\
 \hline
 - \quad 10 \\
 - \quad 10 \\
 \hline
 + \quad 1 \\
 + \quad 1 \\
 \hline
 - \quad 9 \\
 - \quad 9 \\
 \hline
 \times \quad 4 \\
 \times \quad 8 \\
 \hline
 \end{array}$$

$$\begin{array}{r} \times \quad 6 \\ \times \quad 3 \\ \hline - \quad 17 \\ - \quad 9 \\ \hline - \quad 19 \\ - \quad 6 \\ \hline + \quad 2 \\ + \quad 6 \\ \hline \times \quad 7 \\ \times \quad 7 \\ \hline - \quad 13 \\ - \quad 6 \\ \hline - \quad 10 \\ - \quad 6 \\ \hline - \quad 9 \\ - \quad 8 \\ \hline + \quad 3 \\ + \quad 3 \\ \hline \end{array}$$

$$\begin{array}{r} \times & 3 & & \times & 9 & & - & 11 & & - & 9 & & + & 9 & & + & 4 & & + & 8 & & \times & 1 & & - & 12 & & - & 4 \\ \times & 1 & & \times & 8 & & - & 5 & & - & 1 & & + & 6 & & + & 4 & & + & 2 & & \times & 8 & & - & 2 & & - & 1 \end{array}$$

$$-\frac{11}{5} + \frac{10}{2} - \frac{5}{2} - \frac{15}{5} - \frac{19}{10} \times \frac{3}{6} + \frac{10}{3} \times \frac{3}{5} \times \frac{7}{1} - \frac{6}{1}$$

$$\times \begin{array}{r} 4 \\ 1 \end{array} - \begin{array}{r} 4 \\ 1 \end{array} + \begin{array}{r} 4 \\ 9 \end{array} - \begin{array}{r} 5 \\ 3 \end{array} \times \begin{array}{r} 2 \\ 5 \end{array} \times \begin{array}{r} 7 \\ 4 \end{array} + \begin{array}{r} 5 \\ 1 \end{array} + \begin{array}{r} 1 \\ 9 \end{array} + \begin{array}{r} 4 \\ 9 \end{array} - \begin{array}{r} 10 \\ 7 \end{array}$$

$$+ \begin{array}{r} 6 \\ \times 9 \\ \hline 54 \end{array} + \begin{array}{r} 8 \\ \times 6 \\ \hline 48 \end{array} + \begin{array}{r} 10 \\ \times 3 \\ \hline 30 \end{array} + \begin{array}{r} 4 \\ \times 4 \\ \hline 16 \end{array} + \begin{array}{r} 5 \\ \times 7 \\ \hline 35 \end{array} + \begin{array}{r} 7 \\ \times 8 \\ \hline 56 \end{array}$$

$$= \frac{10}{5} = \frac{10}{8} + \frac{3}{8} \times \frac{10}{9} \times \frac{5}{5} = \frac{15}{5} \times \frac{8}{3} \times \frac{4}{9} \times \frac{7}{1} + \frac{1}{1}$$

$$\times \frac{1}{4} + \frac{2}{4} \times \frac{2}{3} = \frac{10}{7} \times \frac{2}{2} \times \frac{8}{8} = \frac{16}{6} \times \frac{3}{7} = \frac{9}{6} = \frac{14}{9}$$

$$= \frac{15}{8} + \frac{10}{4} \times \frac{6}{8} \times \frac{2}{8} = \frac{16}{9} = \frac{3}{1} \times \frac{3}{8} = \frac{12}{7} = \frac{17}{8} \times \frac{4}{9}$$

Opérations Mixtes Solutions (D)

Complétez les exercices suivants

$$\begin{array}{r}
 - & 12 & - & 6 & \times & 10 & + & 3 & \times & 6 & + & 10 & + & 7 & + & 2 & \times & 1 & + & 2 \\
 - & 7 & - & 5 & \underline{-} & 1 & \underline{\times} & 100 & + & 7 & \underline{\times} & 9 & + & 4 & + & 3 & + & 2 & \underline{\times} & 8 & + & 5 \\
 & 5 & & 1 & & 100 & & 10 & & 54 & & 14 & & 10 & & 4 & & 8 & & 8 & & 7
 \end{array}$$

$$\begin{array}{r}
 + & 1 & + & 7 & - & 12 & \times & 2 & - & 13 & + & 9 & - & 12 & + & 9 & - & 12 & \times & 4 \\
 + & 5 & + & 6 & - & 9 & \underline{\times} & 2 & - & 9 & + & 8 & - & 10 & + & 1 & - & 9 & - & 3 & \times & 8 \\
 & 6 & & 13 & & 3 & & 4 & & 4 & & 17 & & 2 & & 10 & & 3 & & 32
 \end{array}$$

$$\begin{array}{r}
 \times & 6 & \times & 17 & - & 19 & - & 12 & - & 2 & \times & 10 & - & 13 & - & 10 & - & 9 & + & 3 \\
 \times & 3 & \underline{-} & 10 & - & 9 & - & 6 & + & 6 & \underline{\times} & 7 & - & 6 & - & 6 & - & 8 & + & 3 \\
 & 18 & & 7 & & 10 & & 6 & & 8 & & 70 & & 7 & & 4 & & 1 & & 6
 \end{array}$$

$$\begin{array}{r}
 \times & 3 & \times & 9 & - & 11 & - & 9 & - & 1 & + & 6 & + & 4 & - & 8 & \times & 1 & - & 12 & - & 4 \\
 \times & 1 & \underline{\times} & 8 & - & 5 & - & 1 & - & 8 & & 15 & & 8 & & 10 & & 8 & - & 2 & - & 1 \\
 & 3 & & 72 & & 6 & & 8 & & 8 & & 15 & & 8 & & 10 & & 8 & & 10 & & 3
 \end{array}$$

$$\begin{array}{r}
 - & 11 & + & 10 & - & 5 & - & 15 & - & 10 & \times & 3 & + & 10 & \times & 3 & \times & 7 & - & 6 \\
 - & 5 & + & 2 & - & 2 & - & 5 & - & 5 & \underline{\times} & 6 & + & 3 & \times & 5 & \times & 1 & - & 1 \\
 & 6 & & 12 & & 3 & & 10 & & 9 & & 18 & & 13 & & 15 & & 7 & & 5
 \end{array}$$

$$\begin{array}{r}
 \times & 4 & - & 4 & + & 4 & - & 5 & - & 3 & \times & 5 & \times & 4 & + & 1 & + & 9 & + & 4 & - & 10 \\
 \times & 1 & - & 1 & + & 9 & - & 3 & - & 2 & & 10 & & 28 & & 6 & & 10 & & 13 & & 3
 \end{array}$$

$$\begin{array}{r}
 + & 6 & \times & 6 & \times & 9 & + & 8 & + & 6 & + & 10 & + & 3 & \times & 4 & \times & 5 & + & 6 & \times & 8 \\
 + & 4 & \underline{\times} & 9 & \underline{\times} & 5 & + & 6 & + & 14 & + & 16 & + & 12 & \underline{\times} & 16 & \underline{\times} & 35 & + & 8 & \times & 7 \\
 & 10 & & 54 & & 45 & & 14 & & 16 & & 16 & & 12 & & 16 & & 35 & & 14 & & 56
 \end{array}$$

$$\begin{array}{r}
 - & 10 & - & 10 & + & 3 & \times & 10 & \times & 5 & - & 5 & \times & 3 & \times & 9 & \times & 1 & + & 1 \\
 - & 5 & - & 8 & + & 8 & \times & 9 & \times & 5 & - & 5 & \underline{\times} & 10 & \underline{\times} & 24 & \underline{\times} & 36 & & 7 \\
 & 5 & & 2 & & 11 & & 90 & & 25 & & 10 & & 24 & & 36 & & 7 & & 2
 \end{array}$$

$$\begin{array}{r}
 \times & 1 & + & 2 & \times & 2 & - & 10 & - & 7 & \times & 2 & \times & 8 & - & 6 & \times & 7 & - & 6 & - & 9 \\
 \times & 4 & + & 4 & \underline{\times} & 3 & - & 3 & & 3 & & 4 & & 64 & & 10 & & 21 & & 3 & & 5
 \end{array}$$

$$\begin{array}{r}
 - & 15 & + & 10 & \times & 6 & - & 2 & \times & 8 & - & 9 & - & 1 & \times & 8 & - & 7 & - & 8 & \times & 9 \\
 - & 8 & + & 4 & \underline{\times} & 8 & & 16 & & 7 & & 2 & & 24 & & 5 & & 9 & & 9 \\
 & 7 & & 14 & & 48 & & 16 & & 7 & & 2 & & 24 & & 5 & & 9 & & 36
 \end{array}$$

Opérations Mixtes (E)

Complétez les exercices suivants

$$\begin{array}{r}
 -15 \\
 -6 \\
 \hline
 +10 \\
 +3 \\
 \hline
 +2 \\
 +1 \\
 \hline
 +6 \\
 +6 \\
 \hline
 -5 \\
 \times 9 \\
 \hline
 \times 8 \\
 \times 8 \\
 \hline
 \times 10 \\
 +2 \\
 \hline
 +6 \\
 +1
 \end{array}$$

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

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

$$\begin{array}{r}
 + \quad 9 & + \quad 8 & + \quad 7 & \times \quad 2 & + \quad 10 & \times \quad 7 & \times \quad 8 & + \quad 8 & - \quad 13 & + \quad 8 \\
 + \quad 2 & + \quad 6 & + \quad 5 & \times 10 & + \quad 5 & \times \quad 4 & \times 10 & + \quad 7 & - \quad 4 & + \quad 3
 \end{array}$$

$$\begin{array}{r}
 + \quad 6 \quad - 16 \quad - 12 \quad - 8 \quad \times 3 \quad + 10 \quad + 8 \quad - 11 \quad - 9 \quad + 1 \\
 3 \quad \underline{- 10} \quad \underline{- 10} \quad \underline{- 4} \quad \times 5 \quad \underline{+ 6} \quad \underline{+ 1} \quad \underline{- 8} \quad \underline{- 1} \quad \underline{+ 6}
 \end{array}$$

$$\times \frac{1}{2} + \frac{4}{4} - \frac{10}{3} \times \frac{7}{1} - \frac{7}{1} \times \frac{2}{8} - \frac{13}{5} + \frac{9}{7} - \frac{8}{2} - \frac{12}{3}$$

$$-\frac{7}{2} \times \frac{1}{3} + \frac{5}{6} \times \frac{2}{2} + \frac{10}{4} - \frac{14}{10} - \frac{7}{4} + \frac{4}{1} - \frac{14}{8} \times \frac{3}{1}$$

$$+ \frac{6}{3} - \frac{16}{9} + \frac{10}{3} + \frac{2}{4} - \frac{6}{3} + \frac{2}{8} + \frac{10}{4} + \frac{9}{7} + \frac{8}{6} - \frac{8}{4}$$

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

$$-\frac{7}{5} + \frac{6}{6} - \frac{11}{9} + \frac{8}{10} \times \frac{3}{8} + \frac{4}{1} + \frac{4}{4} - \frac{8}{2} - \frac{9}{7} - \frac{12}{10}$$

Opérations Mixtes Solutions (E)

Complétez les exercices suivants

$$\begin{array}{r} -15 \\ -\underline{6} \\ \hline 9 \end{array} \quad \begin{array}{r} +10 \\ +3 \\ \hline 13 \end{array} \quad \begin{array}{r} +2 \\ +1 \\ \hline 3 \end{array} \quad \begin{array}{r} +6 \\ +6 \\ \hline 12 \end{array} \quad \begin{array}{r} -5 \\ -5 \\ \hline 1 \end{array} \quad \begin{array}{r} \times 9 \\ \times 9 \\ \hline 72 \end{array} \quad \begin{array}{r} \times 8 \\ \times 8 \\ \hline 16 \end{array} \quad \begin{array}{r} \times 10 \\ \times 10 \\ \hline 40 \end{array} \quad \begin{array}{r} +2 \\ +2 \\ \hline 8 \end{array} \quad \begin{array}{r} +1 \\ +1 \\ \hline 6 \end{array}$$
$$\begin{array}{r} -13 \\ -8 \\ \hline 5 \end{array} \quad \begin{array}{r} +9 \\ +3 \\ \hline 12 \end{array} \quad \begin{array}{r} -10 \\ -7 \\ \hline 3 \end{array} \quad \begin{array}{r} +1 \\ +6 \\ \hline 7 \end{array} \quad \begin{array}{r} \times 9 \\ \times 9 \\ \hline 27 \end{array} \quad \begin{array}{r} \times 7 \\ \times 7 \\ \hline 63 \end{array} \quad \begin{array}{r} \times 10 \\ \times 10 \\ \hline 90 \end{array} \quad \begin{array}{r} \times 5 \\ \times 5 \\ \hline 20 \end{array} \quad \begin{array}{r} \times 6 \\ \times 6 \\ \hline 36 \end{array} \quad \begin{array}{r} +3 \\ +1 \\ \hline 4 \end{array}$$
$$\begin{array}{r} +1 \\ +6 \\ \hline 7 \end{array} \quad \begin{array}{r} -4 \\ -3 \\ \hline 1 \end{array} \quad \begin{array}{r} -13 \\ -4 \\ \hline 9 \end{array} \quad \begin{array}{r} +3 \\ +4 \\ \hline 7 \end{array} \quad \begin{array}{r} +6 \\ +6 \\ \hline 15 \end{array} \quad \begin{array}{r} -9 \\ -9 \\ \hline 5 \end{array} \quad \begin{array}{r} +1 \\ +1 \\ \hline 5 \end{array} \quad \begin{array}{r} +2 \\ +2 \\ \hline 3 \end{array} \quad \begin{array}{r} -5 \\ -5 \\ \hline 6 \end{array} \quad \begin{array}{r} -8 \\ -8 \\ \hline 1 \end{array}$$
$$\begin{array}{r} +9 \\ +2 \\ \hline 11 \end{array} \quad \begin{array}{r} +8 \\ +6 \\ \hline 14 \end{array} \quad \begin{array}{r} +7 \\ +5 \\ \hline 12 \end{array} \quad \begin{array}{r} +2 \\ +10 \\ \hline 20 \end{array} \quad \begin{array}{r} +10 \\ +5 \\ \hline 15 \end{array} \quad \begin{array}{r} +7 \\ +4 \\ \hline 28 \end{array} \quad \begin{array}{r} +8 \\ +10 \\ \hline 80 \end{array} \quad \begin{array}{r} +8 \\ +7 \\ \hline 15 \end{array} \quad \begin{array}{r} -13 \\ -4 \\ \hline 9 \end{array} \quad \begin{array}{r} +8 \\ +3 \\ \hline 11 \end{array}$$
$$\begin{array}{r} +6 \\ +3 \\ \hline 9 \end{array} \quad \begin{array}{r} -16 \\ -10 \\ \hline 6 \end{array} \quad \begin{array}{r} -12 \\ -10 \\ \hline 2 \end{array} \quad \begin{array}{r} -8 \\ -4 \\ \hline 4 \end{array} \quad \begin{array}{r} \times 5 \\ \times 5 \\ \hline 15 \end{array} \quad \begin{array}{r} +10 \\ +6 \\ \hline 16 \end{array} \quad \begin{array}{r} +8 \\ +1 \\ \hline 9 \end{array} \quad \begin{array}{r} -11 \\ -8 \\ \hline 3 \end{array} \quad \begin{array}{r} -9 \\ -1 \\ \hline 8 \end{array} \quad \begin{array}{r} +1 \\ +6 \\ \hline 7 \end{array}$$
$$\begin{array}{r} \times 2 \\ \times 2 \\ \hline 2 \end{array} \quad \begin{array}{r} +4 \\ +4 \\ \hline 8 \end{array} \quad \begin{array}{r} -3 \\ -3 \\ \hline 7 \end{array} \quad \begin{array}{r} \times 1 \\ \times 1 \\ \hline 7 \end{array} \quad \begin{array}{r} -1 \\ -1 \\ \hline 6 \end{array} \quad \begin{array}{r} \times 8 \\ \times 8 \\ \hline 16 \end{array} \quad \begin{array}{r} -5 \\ -5 \\ \hline 8 \end{array} \quad \begin{array}{r} +7 \\ +7 \\ \hline 16 \end{array} \quad \begin{array}{r} -2 \\ -2 \\ \hline 6 \end{array} \quad \begin{array}{r} -3 \\ -3 \\ \hline 9 \end{array}$$
$$\begin{array}{r} -7 \\ -2 \\ \hline 5 \end{array} \quad \begin{array}{r} \times 3 \\ \times 3 \\ \hline 3 \end{array} \quad \begin{array}{r} +5 \\ +6 \\ \hline 11 \end{array} \quad \begin{array}{r} \times 2 \\ \times 2 \\ \hline 4 \end{array} \quad \begin{array}{r} +4 \\ +4 \\ \hline 14 \end{array} \quad \begin{array}{r} -10 \\ -10 \\ \hline 4 \end{array} \quad \begin{array}{r} -4 \\ -4 \\ \hline 3 \end{array} \quad \begin{array}{r} +1 \\ +1 \\ \hline 5 \end{array} \quad \begin{array}{r} -14 \\ -8 \\ \hline 6 \end{array} \quad \begin{array}{r} \times 3 \\ \times 3 \\ \hline 3 \end{array}$$
$$\begin{array}{r} +6 \\ +3 \\ \hline 9 \end{array} \quad \begin{array}{r} -16 \\ -9 \\ \hline 7 \end{array} \quad \begin{array}{r} +10 \\ +3 \\ \hline 13 \end{array} \quad \begin{array}{r} +2 \\ +4 \\ \hline 6 \end{array} \quad \begin{array}{r} -3 \\ -3 \\ \hline 3 \end{array} \quad \begin{array}{r} +8 \\ +8 \\ \hline 10 \end{array} \quad \begin{array}{r} +2 \\ +4 \\ \hline 14 \end{array} \quad \begin{array}{r} +7 \\ +7 \\ \hline 14 \end{array} \quad \begin{array}{r} +6 \\ +6 \\ \hline 14 \end{array} \quad \begin{array}{r} -4 \\ -4 \\ \hline 4 \end{array}$$
$$\begin{array}{r} \times 8 \\ \times 8 \\ \hline 16 \end{array} \quad \begin{array}{r} +4 \\ +8 \\ \hline 12 \end{array} \quad \begin{array}{r} -8 \\ -7 \\ \hline 1 \end{array} \quad \begin{array}{r} +9 \\ +6 \\ \hline 15 \end{array} \quad \begin{array}{r} +5 \\ +7 \\ \hline 12 \end{array} \quad \begin{array}{r} -5 \\ -5 \\ \hline 8 \end{array} \quad \begin{array}{r} +1 \\ +1 \\ \hline 10 \end{array} \quad \begin{array}{r} +4 \\ +5 \\ \hline 9 \end{array} \quad \begin{array}{r} -13 \\ -7 \\ \hline 6 \end{array} \quad \begin{array}{r} +8 \\ +8 \\ \hline 16 \end{array}$$
$$\begin{array}{r} -7 \\ -5 \\ \hline 2 \end{array} \quad \begin{array}{r} +6 \\ +6 \\ \hline 12 \end{array} \quad \begin{array}{r} -11 \\ -9 \\ \hline 2 \end{array} \quad \begin{array}{r} +8 \\ +10 \\ \hline 18 \end{array} \quad \begin{array}{r} \times 8 \\ \times 8 \\ \hline 24 \end{array} \quad \begin{array}{r} +4 \\ +1 \\ \hline 5 \end{array} \quad \begin{array}{r} +4 \\ +4 \\ \hline 8 \end{array} \quad \begin{array}{r} -8 \\ -2 \\ \hline 6 \end{array} \quad \begin{array}{r} -9 \\ -7 \\ \hline 2 \end{array} \quad \begin{array}{r} +12 \\ +10 \\ \hline 2 \end{array}$$

Opérations Mixtes (F)

Complétez les exercices suivants

$$\begin{array}{r}
 + \quad 1 \\
 + \quad 6 \\
 \hline
 + \quad 6 \\
 + \quad 4 \\
 \hline
 - \quad 8 \\
 \times \quad 7 \\
 \hline
 + \quad 7 \\
 \times \quad 8 \\
 \hline
 \times \quad 3 \\
 \times \quad 2 \\
 \hline
 - \quad 17 \\
 - \quad 9 \\
 \hline
 + \quad 4 \\
 + \quad 7 \\
 \hline
 \times \quad 7 \\
 \times \quad 10 \\
 \hline
 - \quad 7 \\
 - \quad 1
 \end{array}$$

$$\begin{array}{r}
 -10 & \times 4 & -11 & + 9 & \times 4 & -12 & \times 6 & \times 8 & \times 5 & + 8 \\
 \underline{-9} & \underline{\times 9} & \underline{-4} & \underline{+ 4} & \underline{\times 6} & \underline{-3} & \underline{\times 7} & \underline{\times 8} & \underline{\times 9} & \underline{+ 10}
 \end{array}$$

$$\begin{array}{r}
 + \quad 7 \\
 + \quad 3 \\
 \hline
 - \quad 14 \\
 - \quad 5 \\
 \hline
 + \quad 9 \\
 + \quad 1 \\
 \hline
 - \quad 14 \\
 - \quad 4 \\
 \hline
 + \quad 4 \\
 + \quad 7 \\
 \hline
 + \quad 6 \\
 + \quad 6 \\
 \hline
 \times \quad 8 \\
 \times \quad 8 \\
 \hline
 - \quad 13 \\
 - \quad 10 \\
 \hline
 - \quad 8 \\
 - \quad 6 \\
 \hline
 \times \quad 6 \\
 \times \quad 5
 \end{array}$$

$$-\frac{6}{5} \times \frac{1}{8} \times \frac{6}{5} \times \frac{9}{1} - \frac{12}{4} + \frac{6}{3} - \frac{5}{1} - \frac{7}{6} - \frac{7}{1} \times \frac{6}{3}$$

$$\times \begin{array}{r} 6 \\ 7 \end{array} + \begin{array}{r} 3 \\ 3 \end{array} + \begin{array}{r} 1 \\ 4 \end{array} - \begin{array}{r} 8 \\ 4 \end{array} \times \begin{array}{r} 10 \\ 7 \end{array} + \begin{array}{r} 5 \\ 4 \end{array} \times \begin{array}{r} 10 \\ 4 \end{array} + \begin{array}{r} 3 \\ 10 \end{array} - \begin{array}{r} 17 \\ 9 \end{array} \times \begin{array}{r} 4 \\ 7 \end{array}$$

$$+ \begin{array}{r} 2 \\ 6 \end{array} \times \begin{array}{r} 6 \\ 2 \end{array} \times \begin{array}{r} 8 \\ 10 \end{array} \times \begin{array}{r} 8 \\ 2 \end{array} - \begin{array}{r} 4 \\ 3 \end{array} + \begin{array}{r} 5 \\ 4 \end{array} + \begin{array}{r} 3 \\ 2 \end{array} \times \begin{array}{r} 7 \\ 9 \end{array} - \begin{array}{r} 16 \\ 10 \end{array} + \begin{array}{r} 8 \\ 2 \end{array}$$

$$= \frac{15}{5} + \frac{1}{3} \times \frac{8}{5} \times \frac{4}{4} - \frac{11}{3} \times \frac{8}{6} - \frac{13}{3} \times \frac{6}{6} + \frac{1}{7} + \frac{1}{9}$$

$$= \frac{7}{5} + \frac{9}{1} \times \frac{9}{10} + \frac{2}{5} \times \frac{4}{6} = \frac{15}{7} \times \frac{10}{2} \times \frac{6}{9} = \frac{5}{3} + \frac{2}{7}$$

$$-\frac{6}{2} - \frac{6}{1} + \frac{3}{4} + \frac{9}{4} - \frac{16}{6} \times \frac{4}{10} - \frac{11}{10} \times \frac{4}{8} - \frac{4}{3} = -\frac{18}{9}$$

$$+ \frac{2}{9} + \frac{7}{9} \times \frac{7}{4} + \frac{7}{7} - \frac{2}{1} + \frac{3}{5} - \frac{3}{2} \times \frac{3}{1} + \frac{6}{2} = \frac{15}{6}$$

Opérations Mixtes Solutions (F)

Complétez les exercices suivants

$\frac{1}{+ 6}$	$\frac{6}{+ 4}$	$\frac{17}{- 8}$	$\frac{9}{\times 7}$	$\frac{7}{+ 8}$	$\frac{3}{\times 2}$	$\frac{17}{- 9}$	$\frac{4}{+ 7}$	$\frac{7}{\times 10}$	$\frac{7}{- 1}$
$\underline{7}$	$\underline{10}$	$\underline{9}$	$\underline{63}$	$\underline{15}$	$\underline{6}$	$\underline{8}$	$\underline{11}$	$\underline{70}$	$\underline{6}$
$\frac{10}{- 9}$	$\frac{4}{\times 9}$	$\frac{11}{- 4}$	$\frac{9}{+ 4}$	$\frac{4}{\times 6}$	$\frac{12}{- 3}$	$\frac{6}{\times 7}$	$\frac{8}{\times 8}$	$\frac{5}{\times 9}$	$\frac{8}{+ 10}$
$\underline{1}$	$\underline{36}$	$\underline{7}$	$\underline{13}$	$\underline{24}$	$\underline{9}$	$\underline{42}$	$\underline{64}$	$\underline{45}$	$\underline{18}$
$\frac{7}{+ 3}$	$\frac{14}{- 5}$	$\frac{9}{+ 1}$	$\frac{14}{- 4}$	$\frac{4}{+ 7}$	$\frac{6}{+ 6}$	$\frac{8}{\times 8}$	$\frac{13}{- 10}$	$\frac{8}{- 6}$	$\frac{6}{\times 5}$
$\underline{10}$	$\underline{9}$	$\underline{10}$	$\underline{10}$	$\underline{11}$	$\underline{12}$	$\underline{64}$	$\underline{3}$	$\underline{2}$	$\underline{30}$
$\frac{6}{- 5}$	$\frac{1}{\times 8}$	$\frac{6}{\times 5}$	$\frac{9}{\times 1}$	$\frac{12}{- 4}$	$\frac{6}{+ 3}$	$\frac{5}{- 1}$	$\frac{7}{- 6}$	$\frac{7}{- 1}$	$\frac{6}{\times 3}$
$\underline{1}$	$\underline{8}$	$\underline{30}$	$\underline{9}$	$\underline{8}$	$\underline{9}$	$\underline{4}$	$\underline{1}$	$\underline{6}$	$\underline{18}$
$\frac{6}{\times 7}$	$\frac{3}{+ 3}$	$\frac{1}{+ 4}$	$\frac{8}{- 4}$	$\frac{10}{\times 7}$	$\frac{5}{+ 4}$	$\frac{10}{\times 4}$	$\frac{3}{+ 10}$	$\frac{17}{- 9}$	$\frac{4}{\times 7}$
$\underline{42}$	$\underline{6}$	$\underline{5}$	$\underline{4}$	$\underline{70}$	$\underline{9}$	$\underline{40}$	$\underline{13}$	$\underline{8}$	$\underline{28}$
$\frac{2}{+ 6}$	$\frac{6}{\times 2}$	$\frac{8}{\times 10}$	$\frac{8}{\times 2}$	$\frac{4}{- 3}$	$\frac{5}{+ 4}$	$\frac{3}{+ 2}$	$\frac{7}{\times 9}$	$\frac{16}{- 10}$	$\frac{8}{+ 2}$
$\underline{8}$	$\underline{12}$	$\underline{80}$	$\underline{16}$	$\underline{1}$	$\underline{9}$	$\underline{5}$	$\underline{63}$	$\underline{6}$	$\underline{10}$
$\frac{15}{- 5}$	$\frac{1}{+ 3}$	$\frac{8}{\times 5}$	$\frac{4}{\times 4}$	$\frac{11}{- 3}$	$\frac{8}{\times 6}$	$\frac{13}{- 3}$	$\frac{6}{\times 6}$	$\frac{1}{+ 7}$	$\frac{1}{+ 9}$
$\underline{10}$	$\underline{4}$	$\underline{40}$	$\underline{16}$	$\underline{8}$	$\underline{48}$	$\underline{10}$	$\underline{36}$	$\underline{8}$	$\underline{10}$
$\frac{7}{- 5}$	$\frac{9}{+ 1}$	$\frac{9}{\times 10}$	$\frac{2}{+ 5}$	$\frac{4}{\times 6}$	$\frac{15}{- 7}$	$\frac{10}{\times 2}$	$\frac{6}{\times 9}$	$\frac{5}{- 3}$	$\frac{2}{+ 7}$
$\underline{2}$	$\underline{10}$	$\underline{90}$	$\underline{7}$	$\underline{24}$	$\underline{8}$	$\underline{20}$	$\underline{54}$	$\underline{2}$	$\underline{9}$
$\frac{6}{- 2}$	$\frac{6}{- 1}$	$\frac{3}{+ 4}$	$\frac{9}{+ 4}$	$\frac{16}{- 6}$	$\frac{4}{\times 10}$	$\frac{11}{- 10}$	$\frac{4}{\times 8}$	$\frac{4}{- 3}$	$\frac{18}{- 9}$
$\underline{4}$	$\underline{5}$	$\underline{7}$	$\underline{13}$	$\underline{10}$	$\underline{40}$	$\underline{1}$	$\underline{32}$	$\underline{1}$	$\underline{9}$
$\frac{2}{+ 9}$	$\frac{7}{+ 9}$	$\frac{7}{\times 4}$	$\frac{7}{+ 7}$	$\frac{2}{- 1}$	$\frac{3}{+ 5}$	$\frac{3}{- 2}$	$\frac{3}{\times 1}$	$\frac{6}{+ 2}$	$\frac{15}{- 6}$
$\underline{11}$	$\underline{16}$	$\underline{28}$	$\underline{14}$	$\underline{1}$	$\underline{8}$	$\underline{1}$	$\underline{3}$	$\underline{8}$	$\underline{9}$

Opérations Mixtes (G)

Complétez les exercices suivants

$$\begin{array}{r}
 -\frac{6}{4} + \frac{6}{1} \times \frac{1}{10} - \frac{4}{3} \times \frac{9}{4} \times \frac{8}{4} \times \frac{7}{4} + \frac{1}{3} \times \frac{3}{2} + \frac{1}{8}
 \end{array}$$

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

$$-\frac{11}{5} \times \frac{7}{8} - \frac{15}{6} - \frac{10}{3} + \frac{6}{7} - \frac{8}{5} + \frac{4}{3} - \frac{7}{2} + \frac{7}{1} \times \frac{9}{6}$$

$$\begin{array}{ccccccccccccc} \times & 8 & & 3 & & \times & 10 & & - & 12 & & \times & 8 & & - & 13 & & \times & 1 & & - & 10 & & \times & 5 & & + & 4 \\ \times & 2 & + & 8 & & \times & 10 & & - & 6 & & \times & 9 & & - & 3 & & \times & 4 & & - & 6 & & \times & 9 & & + & 6 \end{array}$$

$$+ \frac{2}{1} + \frac{5}{1} - \frac{16}{10} - \frac{7}{6} - \frac{10}{1} - \frac{7}{4} \times \frac{7}{5} - \frac{6}{1} - \frac{7}{3} \times \frac{10}{1}$$

$$-\frac{14}{5} = \frac{14}{8} + \frac{8}{2} \times \frac{5}{3} + \frac{6}{7} + \frac{4}{6} - \frac{6}{2} - \frac{17}{9} - \frac{15}{8} \times \frac{7}{4}$$

$$+ \begin{array}{r} 9 \\ 4 \end{array} = \begin{array}{r} 8 \\ 3 \end{array} \times \begin{array}{r} 7 \\ 4 \end{array} + \begin{array}{r} 8 \\ 1 \end{array} \times \begin{array}{r} 8 \\ 4 \end{array} - \begin{array}{r} 9 \\ 4 \end{array} - \begin{array}{r} 12 \\ 3 \end{array} - \begin{array}{r} 4 \\ 1 \end{array} - \begin{array}{r} 13 \\ 8 \end{array} + \begin{array}{r} 10 \\ 3 \end{array}$$

$$= \frac{11}{7} + \frac{6}{7} = \frac{7}{1} - \frac{6}{5} + \frac{8}{6} = \frac{12}{7} + \frac{6}{5} - \frac{14}{9} + \frac{6}{3} + \frac{6}{4}$$

$$-\frac{11}{10} \times \frac{1}{2} \times \frac{7}{1} + \frac{4}{5} \times \frac{5}{5} \times \frac{5}{5} - \frac{11}{10} \times \frac{2}{5} - \frac{12}{9} = -\frac{19}{10}$$

$$\times \frac{7}{6} - \frac{11}{9} + \frac{9}{10} - \frac{12}{7} - \frac{19}{9} - \frac{13}{4} \times \frac{4}{5} - \frac{15}{9} + \frac{8}{2} \times \frac{9}{10}$$

Opérations Mixtes Solutions (G)

Complétez les exercices suivants

$$\begin{array}{r}
 - & 6 & + & 6 & \times & 1 & - & 4 & \times & 9 & \times & 8 & \times & 7 & + & 1 & \times & 3 & + & 1 \\
 \hline
 & 4 & & 1 & & 10 & & 3 & & 4 & & 4 & & 4 & & 3 & & 2 & & 8 \\
 & 2 & & 7 & & 10 & & 1 & & 36 & & 32 & & 28 & & 4 & & 6 & & 9 \\
 \\
 + & 9 & - & 11 & \times & 4 & + & 5 & + & 6 & + & 2 & + & 2 & - & 6 & + & 5 & \times & 5 \\
 \hline
 & 3 & & 10 & & 7 & & 2 & & 9 & & 10 & & 6 & & 4 & & 9 & & 15 \\
 & 12 & & 1 & & 28 & & 7 & & 15 & & 12 & & 8 & & 2 & & 9 & & 15 \\
 \\
 - & 11 & \times & 7 & - & 15 & - & 10 & + & 6 & - & 5 & + & 4 & - & 7 & + & 7 & \times & 9 \\
 \hline
 & 5 & & 8 & & 6 & & 3 & & 7 & & 3 & & 7 & & 2 & & 1 & & 6 \\
 & 6 & & 56 & & 9 & & 7 & & 13 & & 3 & & 7 & & 5 & & 8 & & 54 \\
 \\
 \times & 8 & + & 3 & \times & 10 & - & 12 & \times & 8 & - & 3 & \times & 13 & \times & 1 & - & 10 & \times & 5 & + & 4 \\
 \hline
 & 2 & & 11 & & 100 & & 6 & & 72 & & 10 & & 4 & & 6 & & 45 & & 10 \\
 & 16 & & 11 & & 100 & & 6 & & 72 & & 10 & & 4 & & 6 & & 45 & & 10 \\
 \\
 + & 2 & + & 5 & - & 16 & - & 7 & - & 10 & - & 1 & - & 4 & \times & 5 & - & 1 & - & 3 & \times & 1 \\
 \hline
 & 1 & & 6 & & 6 & & 1 & & 9 & & 3 & & 35 & & 5 & & 4 & & 10 \\
 & 3 & & 6 & & 6 & & 1 & & 9 & & 3 & & 35 & & 5 & & 4 & & 10 \\
 \\
 - & 14 & - & 14 & + & 8 & \times & 5 & + & 6 & + & 4 & - & 6 & - & 17 & - & 15 & & 7 \\
 \hline
 & 5 & & 8 & & 2 & & 3 & & 7 & & 6 & & 4 & & 7 & & 8 & & 4 \\
 & 9 & & 6 & & 10 & & 15 & & 13 & & 10 & & 4 & & 7 & & 7 & & 28 \\
 \\
 + & 9 & - & 8 & + & 2 & \times & 3 & + & 7 & + & 6 & - & 2 & - & 9 & - & 8 & & 4 \\
 \hline
 & 4 & & 6 & & 10 & & 15 & & 13 & & 10 & & 4 & & 7 & & 7 & & 28 \\
 & 13 & & 5 & & 28 & & 9 & & 32 & & 5 & & 9 & & 3 & & 5 & & 13 \\
 \\
 - & 11 & + & 6 & - & 7 & - & 6 & + & 8 & - & 12 & + & 6 & - & 14 & + & 6 & & 6 \\
 \hline
 & 7 & & 7 & & 6 & & 1 & & 14 & & 5 & & 11 & & 5 & & 9 & & 10 \\
 & 4 & & 13 & & 6 & & 1 & & 14 & & 5 & & 11 & & 5 & & 9 & & 10 \\
 \\
 - & 11 & \times & 1 & \times & 7 & + & 4 & \times & 5 & \times & 5 & - & 10 & \times & 2 & - & 12 & & 19 \\
 \hline
 & 10 & & 2 & & 7 & & 9 & & 25 & & 25 & & 1 & & 10 & & 3 & & 10 \\
 & 1 & & 2 & & 7 & & 9 & & 25 & & 25 & & 1 & & 10 & & 3 & & 9 \\
 \\
 \times & 7 & - & 9 & + & 10 & - & 7 & - & 9 & - & 4 & \times & 5 & - & 9 & + & 8 & \times & 9 \\
 \hline
 & 6 & & 2 & & 19 & & 5 & & 10 & & 9 & & 20 & & 6 & & 10 & & 90 \\
 & 42 & & 2 & & 19 & & 5 & & 10 & & 9 & & 20 & & 6 & & 10 & & 90
 \end{array}$$

Opérations Mixtes (H)

Complétez les exercices suivants

$$\begin{array}{r}
 -12 \\
 -10 \\
 \hline
 +4 \\
 +1 \\
 \hline
 -5 \\
 \times 4 \\
 \hline
 \end{array}
 \quad
 \begin{array}{r}
 8 \\
 \times 9 \\
 \hline
 +7 \\
 +7 \\
 \hline
 \times 8 \\
 \times 8 \\
 \hline
 +3 \\
 +3 \\
 \hline
 -8 \\
 -8 \\
 \hline
 +6 \\
 +6 \\
 \hline
 \end{array}$$

$$\begin{array}{r} \times 8 \\ \times 2 \\ \hline \end{array} \quad \begin{array}{r} \times 4 \\ \times 6 \\ \hline \end{array} \quad \begin{array}{r} \times 1 \\ \times 2 \\ \hline \end{array} \quad \begin{array}{r} + 8 \\ + 4 \\ \hline \end{array} \quad \begin{array}{r} - 18 \\ - 8 \\ \hline \end{array} \quad \begin{array}{r} \times 3 \\ \times 10 \\ \hline \end{array} \quad \begin{array}{r} - 15 \\ - 8 \\ \hline \end{array} \quad \begin{array}{r} - 7 \\ - 5 \\ \hline \end{array} \quad \begin{array}{r} + 3 \\ + 1 \\ \hline \end{array} \quad \begin{array}{r} + 4 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} \times \\ 2 \\ \hline 5 \\ \hline -16 \\ +4 \\ \hline -7 \\ -9 \\ \hline +8 \\ -8 \\ \hline -2 \\ +9 \\ \hline +3 \end{array}$$

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

$$\begin{array}{r}
 + \quad 9 \\
 + \quad 5 \\
 \hline
 - \quad 13 \\
 - \quad 8 \\
 \hline
 - \quad 9 \\
 - \quad 5 \\
 \hline
 - \quad 8 \\
 - \quad 3 \\
 \hline
 - \quad 6 \\
 - \quad 2 \\
 \hline
 - \quad 11 \\
 - \quad 1 \\
 \hline
 + \quad 5 \\
 + \quad 2 \\
 \hline
 \times \quad 9 \\
 \hline
 - \quad 15 \\
 - \quad 10 \\
 \hline
 + \quad 1
 \end{array}$$

$$-\frac{16}{6} + \frac{10}{8} - \frac{19}{10} + \frac{3}{1} - \frac{8}{5} + \frac{2}{1} - \frac{5}{2} + \frac{8}{1} + \frac{5}{3} - \frac{13}{7}$$

$$-\frac{18}{9} + \frac{5}{6} - \frac{20}{10} - \frac{8}{2} \times \frac{1}{6} - \frac{11}{9} \times \frac{9}{9} - \frac{2}{1} - \frac{14}{10} + \frac{5}{5}$$

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

$$\times \begin{array}{r} 2 \\ 8 \end{array} + \begin{array}{r} 9 \\ 3 \end{array} - \begin{array}{r} 11 \\ 2 \end{array} \times \begin{array}{r} 5 \\ 2 \end{array} + \begin{array}{r} 3 \\ 6 \end{array} \times \begin{array}{r} 10 \\ 8 \end{array} + \begin{array}{r} 3 \\ 6 \end{array} - \begin{array}{r} 8 \\ 2 \end{array} + \begin{array}{r} 9 \\ 2 \end{array} \times \begin{array}{r} 7 \\ 9 \end{array}$$

$$-\frac{18}{10} \times \frac{9}{2} - \frac{8}{1} - \frac{18}{9} \times \frac{7}{6} + \frac{5}{4} + \frac{2}{6} - \frac{11}{10} - \frac{11}{3} + \frac{10}{8}$$

Opérations Mixtes Solutions (H)

Complétez les exercices suivants

$$\begin{array}{r}
 -12 & +4 & -12 & \times 8 & \times 1 & +8 & \times 7 & +4 & -12 & +1 \\
 -10 & +1 & -5 & \times 4 & \times 9 & +7 & \times 8 & +3 & -8 & +6 \\
 \hline
 2 & 5 & 7 & 32 & 9 & 15 & 56 & 7 & 4 & 7
 \end{array}$$

$$\begin{array}{r}
 \times 8 & +4 & 1 & 8 & 18 & 3 & 15 & 7 & 3 & 4 \\
 \times 2 & \times 6 & \times 2 & +4 & -8 & \times 10 & -8 & -5 & +1 & +5 \\
 \hline
 16 & 24 & 2 & 12 & 10 & 30 & 7 & 2 & 4 & 9
 \end{array}$$

$$\begin{array}{r}
 \times 2 & -16 & 2 & 10 & 11 & 4 & 10 & 7 & 10 & 6 \\
 \times 5 & -8 & +4 & -7 & -9 & +8 & -8 & -2 & +9 & +3 \\
 \hline
 10 & 8 & 6 & 3 & 2 & 12 & 2 & 5 & 19 & 9
 \end{array}$$

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

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

$$\begin{array}{r}
 -16 & +10 & -19 & 3 & 8 & 2 & 5 & 8 & 5 & 13 \\
 -6 & +8 & -10 & +1 & -5 & +1 & -2 & +1 & +3 & -7 \\
 \hline
 10 & 18 & 9 & 4 & 3 & 3 & 3 & 9 & 8 & 6
 \end{array}$$

$$\begin{array}{r}
 -18 & +5 & -20 & 8 & 1 & 11 & 9 & 2 & 14 & 5 \\
 -9 & +6 & -10 & -2 & \times 6 & -9 & \times 9 & -1 & -10 & +5 \\
 \hline
 9 & 11 & 10 & 6 & 6 & 2 & 81 & 1 & 4 & 10
 \end{array}$$

$$\begin{array}{r}
 +5 & 4 & 2 & 2 & 1 & 13 & 9 & 13 & 1 & 1 \\
 +4 & +6 & +10 & +7 & \times 3 & -6 & -8 & -7 & +6 & \times 4 \\
 \hline
 9 & 10 & 12 & 9 & 3 & 7 & 1 & 6 & 7 & 4
 \end{array}$$

$$\begin{array}{r}
 \times 2 & +9 & -11 & 5 & 3 & 10 & 3 & 8 & 9 & 7 \\
 \times 8 & +3 & -2 & \times 2 & +6 & \times 8 & +6 & -2 & +2 & \times 9 \\
 \hline
 16 & 12 & 9 & 10 & 9 & 80 & 9 & 6 & 11 & 63
 \end{array}$$

$$\begin{array}{r}
 -18 & +9 & -8 & 18 & 7 & 5 & 2 & 11 & 11 & 10 \\
 -10 & \times 2 & -1 & -9 & \times 6 & +4 & +6 & -10 & -3 & +8 \\
 \hline
 8 & 18 & 7 & 9 & 42 & 9 & 8 & 1 & 8 & 18
 \end{array}$$

Opérations Mixtes (I)

Complétez les exercices suivants

$$\begin{array}{r} \times \quad 1 \\ \times \quad 5 \\ \hline \end{array} \quad \begin{array}{r} \times \quad 6 \\ \times \quad 4 \\ \hline - \quad 4 \end{array} \quad \begin{array}{r} - \quad 13 \\ - \quad 3 \\ \hline \end{array} \quad \begin{array}{r} \times \quad 6 \\ \times \quad 7 \\ \hline + \quad 6 \end{array} \quad \begin{array}{r} \times \quad 3 \\ \times \quad 3 \\ \hline - \quad 1 \end{array} \quad \begin{array}{r} - \quad 9 \\ - \quad 1 \\ \hline \end{array} \quad \begin{array}{r} \times \quad 7 \\ \times \quad 6 \\ \hline - \quad 3 \end{array}$$

$$\begin{array}{r}
 + \quad 8 \quad + \quad 3 \quad + \quad 8 \quad + \quad 9 \quad - \quad 14 \quad \times \quad 8 \quad \times \quad 10 \quad \times \quad 10 \quad + \quad 6 \quad + \quad 4 \\
 + \quad 9 \quad + \quad 5 \quad + \quad 7 \quad + \quad 6 \quad - \quad 6 \quad \times \quad 3 \quad \times \quad 3 \quad \times \quad 7 \quad + \quad 6 \quad + \quad 8
 \end{array}$$

$$+ \frac{9}{8} - \frac{7}{1} + \frac{8}{7} - \frac{6}{3} - \frac{9}{5} + \frac{3}{4} - \frac{7}{6} \times \frac{7}{5} + \frac{6}{7} - \frac{14}{6}$$

$$+ \begin{array}{r} 9 \\ 6 \end{array} \times \begin{array}{r} 5 \\ 6 \end{array} + \begin{array}{r} 9 \\ 7 \end{array} \times \begin{array}{r} 9 \\ 9 \end{array} - \begin{array}{r} 7 \\ 6 \end{array} - \begin{array}{r} 7 \\ 6 \end{array} - \begin{array}{r} 14 \\ 4 \end{array} + \begin{array}{r} 6 \\ 3 \end{array} \times \begin{array}{r} 2 \\ 10 \end{array} \times \begin{array}{r} 10 \\ 7 \end{array}$$

$$\begin{array}{ccccccccccccc} & 8 & & 7 & & - & 13 & & 5 & & - & 10 & & 6 & & - & 4 & & + & 10 & & - & 16 & & 9 \\ \times & 2 & + & 2 & - & 4 & + & 4 & - & 6 & + & 10 & - & 1 & + & 3 & - & 6 & - & 2 \end{array}$$

$$+ \frac{2}{6} - \frac{13}{10} - \frac{16}{8} \times \frac{2}{8} + \frac{10}{3} - \frac{5}{3} \times \frac{2}{6} \times \frac{9}{8} + \frac{3}{7} + \frac{5}{3}$$

$$\times \begin{array}{r} 6 \\ 7 \end{array} = \begin{array}{r} 10 \\ 8 \end{array} - \begin{array}{r} 10 \\ 7 \end{array} \times \begin{array}{r} 4 \\ 2 \end{array} + \begin{array}{r} 8 \\ 3 \end{array} + \begin{array}{r} 7 \\ 5 \end{array} + \begin{array}{r} 9 \\ 9 \end{array} \times \begin{array}{r} 7 \\ 10 \end{array} + \begin{array}{r} 3 \\ 3 \end{array} + \begin{array}{r} 9 \\ 2 \end{array}$$

$$\times \begin{array}{r} 5 \\ 9 \end{array} + \begin{array}{r} 10 \\ 9 \end{array} = \begin{array}{r} 16 \\ 10 \end{array} \times \begin{array}{r} 3 \\ 2 \end{array} \times \begin{array}{r} 4 \\ 4 \end{array} = \begin{array}{r} 12 \\ 9 \end{array} \times \begin{array}{r} 4 \\ 3 \end{array} \times \begin{array}{r} 6 \\ 2 \end{array} = \begin{array}{r} 9 \\ 5 \end{array} + \begin{array}{r} 4 \\ 4 \end{array}$$

$$+ \frac{2}{4} + \frac{6}{5} \times \frac{6}{9} - \frac{7}{5} \times \frac{4}{3} \times \frac{2}{1} \times \frac{5}{6} \times \frac{10}{1} \times \frac{8}{8} = \frac{11}{7}$$

$$+ \frac{10}{1} - \frac{17}{8} - \frac{19}{10} - \frac{7}{2} \times \frac{7}{2} + \frac{1}{1} \times \frac{1}{6} - \frac{14}{9} - \frac{10}{4} - \frac{12}{9}$$

Opérations Mixtes Solutions (I)

Complétez les exercices suivants

$$\begin{array}{r}
 \times \quad 1 \quad \times \quad 6 \quad - \quad 13 \quad - \quad 11 \quad \times \quad 6 \quad + \quad 7 \quad \times \quad 3 \quad - \quad 9 \quad \times \quad 7 \quad - \quad 5 \\
 \hline
 \times \quad 5 \quad \times \quad 4 \quad - \quad 4 \quad - \quad 3 \quad \times \quad 7 \quad + \quad 6 \quad \times \quad 3 \quad - \quad 1 \quad \times \quad 6 \quad - \quad 3 \\
 \hline
 \quad 5 \quad \quad 24 \quad \quad 9 \quad \quad 8 \quad \quad 42 \quad \quad 13 \quad \quad 9 \quad \quad 8 \quad \quad 42 \quad \quad 3 \quad \quad 2
 \end{array}$$

$$\begin{array}{r}
 + \quad 8 \quad + \quad 3 \quad + \quad 8 \quad + \quad 9 \quad - \quad 14 \quad \times \quad 8 \quad \times \quad 10 \quad \times \quad 10 \quad + \quad 6 \quad + \quad 4 \\
 \hline
 + \quad 9 \quad + \quad 5 \quad + \quad 7 \quad + \quad 6 \quad - \quad 6 \quad \times \quad 3 \quad \times \quad 3 \quad \times \quad 7 \quad + \quad 6 \quad + \quad 8 \\
 \hline
 \quad 17 \quad \quad 8 \quad \quad 15 \quad \quad 15 \quad \quad 8 \quad \quad 24 \quad \quad 30 \quad \quad 70 \quad \quad 12 \quad \quad 12
 \end{array}$$

$$\begin{array}{r}
 + \quad 9 \quad - \quad 7 \quad + \quad 8 \quad - \quad 6 \quad - \quad 9 \quad + \quad 3 \quad - \quad 7 \quad \times \quad 7 \quad + \quad 6 \quad - \quad 14 \\
 \hline
 + \quad 8 \quad - \quad 1 \quad + \quad 7 \quad - \quad 3 \quad - \quad 5 \quad + \quad 4 \quad - \quad 6 \quad \times \quad 5 \quad + \quad 7 \quad - \quad 6 \\
 \hline
 \quad 17 \quad \quad 6 \quad \quad 15 \quad \quad 3 \quad \quad 4 \quad \quad 7 \quad \quad 1 \quad \quad 35 \quad \quad 13 \quad \quad 8
 \end{array}$$

$$\begin{array}{r}
 + \quad 9 \quad \times \quad 5 \quad + \quad 9 \quad \times \quad 9 \quad - \quad 7 \quad - \quad 7 \quad - \quad 14 \quad + \quad 6 \quad \times \quad 2 \quad + \quad 10 \\
 \hline
 + \quad 6 \quad \times \quad 6 \quad + \quad 7 \quad \times \quad 9 \quad - \quad 6 \quad - \quad 6 \quad - \quad 4 \quad + \quad 3 \quad \times \quad 10 \quad \times \quad 7 \\
 \hline
 \quad 15 \quad \quad 30 \quad \quad 16 \quad \quad 81 \quad \quad 1 \quad \quad 1 \quad \quad 10 \quad \quad 9 \quad \quad 20 \quad \quad 70
 \end{array}$$

$$\begin{array}{r}
 \times \quad 8 \quad + \quad 7 \quad - \quad 13 \quad + \quad 5 \quad - \quad 10 \quad + \quad 6 \quad - \quad 4 \quad + \quad 10 \quad - \quad 16 \quad - \quad 9 \\
 \hline
 \times \quad 2 \quad + \quad 2 \quad - \quad 4 \quad + \quad 4 \quad - \quad 6 \quad + \quad 10 \quad - \quad 1 \quad + \quad 3 \quad - \quad 6 \quad - \quad 2 \\
 \hline
 \quad 16 \quad \quad 9 \quad \quad 9 \quad \quad 9 \quad \quad 4 \quad \quad 16 \quad \quad 3 \quad \quad 13 \quad \quad 10 \quad \quad 7 \quad \quad 7
 \end{array}$$

$$\begin{array}{r}
 + \quad 2 \quad - \quad 13 \quad - \quad 16 \quad - \quad 2 \quad + \quad 10 \quad - \quad 5 \quad - \quad 2 \quad \times \quad 9 \quad + \quad 3 \quad - \quad 5 \\
 \hline
 + \quad 6 \quad - \quad 10 \quad - \quad 8 \quad \times \quad 8 \quad + \quad 3 \quad - \quad 3 \quad \times \quad 6 \quad \times \quad 8 \quad + \quad 7 \quad + \quad 3 \\
 \hline
 \quad 8 \quad \quad 3 \quad \quad 8 \quad \quad 16 \quad \quad 13 \quad \quad 2 \quad \quad 12 \quad \quad 72 \quad \quad 10 \quad \quad 8
 \end{array}$$

$$\begin{array}{r}
 \times \quad 6 \quad - \quad 10 \quad - \quad 7 \quad \times \quad 2 \quad + \quad 3 \quad + \quad 8 \quad + \quad 7 \quad + \quad 9 \quad \times \quad 7 \quad + \quad 3 \quad + \quad 9 \\
 \hline
 \times \quad 7 \quad - \quad 8 \quad - \quad 7 \quad \times \quad 2 \quad + \quad 3 \quad - \quad 11 \quad + \quad 5 \quad + \quad 9 \quad \times \quad 10 \quad + \quad 3 \quad + \quad 2 \\
 \hline
 \quad 42 \quad \quad 2 \quad \quad 3 \quad \quad 8 \quad \quad 11 \quad \quad 12 \quad \quad 18 \quad \quad 70 \quad \quad 6 \quad \quad 11
 \end{array}$$

$$\begin{array}{r}
 \times \quad 5 \quad + \quad 9 \quad - \quad 10 \quad \times \quad 2 \quad \times \quad 4 \quad - \quad 9 \quad \times \quad 3 \quad \times \quad 2 \quad - \quad 5 \quad + \quad 4 \\
 \hline
 \times \quad 9 \quad + \quad 9 \quad - \quad 10 \quad \times \quad 2 \quad \times \quad 4 \quad - \quad 16 \quad \times \quad 3 \quad \times \quad 12 \quad - \quad 4 \quad + \quad 8 \\
 \hline
 \quad 45 \quad \quad 19 \quad \quad 6 \quad \quad 6 \quad \quad 16 \quad \quad 3 \quad \quad 12 \quad \quad 12 \quad \quad 4 \quad \quad 8
 \end{array}$$

$$\begin{array}{r}
 + \quad 2 \quad + \quad 5 \quad \times \quad 9 \quad - \quad 5 \quad \times \quad 3 \quad \times \quad 1 \quad \times \quad 2 \quad \times \quad 5 \quad - \quad 10 \quad + \quad 8 \quad - \quad 11 \\
 \hline
 + \quad 4 \quad + \quad 11 \quad \quad 54 \quad \quad 2 \quad \quad 12 \quad \quad 2 \quad \quad 30 \quad \quad 10 \quad \quad 64 \quad \quad 7 \\
 \hline
 \quad 6 \quad \quad 11 \quad \quad 54 \quad \quad 2 \quad \quad 12 \quad \quad 2 \quad \quad 30 \quad \quad 10 \quad \quad 64 \quad \quad 4
 \end{array}$$

$$\begin{array}{r}
 + \quad 10 \quad - \quad 8 \quad - \quad 10 \quad - \quad 2 \quad \times \quad 2 \quad + \quad 1 \quad \times \quad 6 \quad - \quad 9 \quad - \quad 14 \quad - \quad 4 \quad - \quad 12 \\
 \hline
 + \quad 1 \quad - \quad 9 \quad - \quad 9 \quad - \quad 5 \quad \times \quad 14 \quad - \quad 2 \quad \times \quad 6 \quad - \quad 5 \quad - \quad 9 \quad - \quad 6 \quad - \quad 9 \\
 \hline
 \quad 11 \quad \quad 9 \quad \quad 9 \quad \quad 5 \quad \quad 14 \quad \quad 2 \quad \quad 6 \quad \quad 5 \quad \quad 9 \quad \quad 6 \quad \quad 9 \quad \quad 3
 \end{array}$$

Opérations Mixtes (J)

Complétez les exercices suivants

$$\begin{array}{r}
 + \frac{10}{6} \\
 \times \frac{9}{3} \\
 \hline
 - \frac{12}{6} \\
 + \frac{4}{5} \\
 \hline
 - \frac{7}{5} \\
 \times \frac{6}{9} \\
 \hline
 - \frac{14}{6} \\
 - \frac{3}{1} \\
 + \frac{10}{10} \\
 \times \frac{5}{6}
 \end{array}$$

$$\begin{array}{r}
 \times \quad 5 & \times \quad 5 & + \quad 3 & - \quad 12 & + \quad 3 & + \quad 6 & - \quad 7 & + \quad 10 & + \quad 1 & + \quad 3 \\
 \times \quad 4 & \times \quad 8 & + \quad 5 & - \quad 10 & + \quad 6 & + \quad 10 & - \quad 1 & + \quad 7 & + \quad 1 & + \quad 2
 \end{array}$$

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

$$+ \begin{array}{r} 10 \\ 1 \end{array} \times \begin{array}{r} 3 \\ 1 \end{array} - \begin{array}{r} 10 \\ 7 \end{array} - \begin{array}{r} 13 \\ 10 \end{array} - \begin{array}{r} 12 \\ 8 \end{array} - \begin{array}{r} 10 \\ 6 \end{array} - \begin{array}{r} 5 \\ 3 \end{array} + \begin{array}{r} 3 \\ 5 \end{array} + \begin{array}{r} 3 \\ 8 \end{array} - \begin{array}{r} 11 \\ 4 \end{array}$$

$$\begin{array}{r} \times 10 \\ \times 2 \\ + 5 \\ + 6 \\ \hline \end{array} \quad \begin{array}{r} \times 9 \\ \times 8 \\ + 4 \\ \hline \end{array} \quad \begin{array}{r} \times 6 \\ \times 3 \\ \times 5 \\ \hline \end{array} \quad \begin{array}{r} \times 7 \\ \times 3 \\ + 4 \\ \hline \end{array} \quad \begin{array}{r} \times 10 \\ \times 8 \\ \times 5 \\ \hline \end{array}$$

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

$$\times \begin{array}{r} 7 \\ 4 \end{array} \quad \times \begin{array}{r} 7 \\ 6 \end{array} \quad + \begin{array}{r} 3 \\ 2 \end{array} \quad + \begin{array}{r} 6 \\ 8 \end{array} \quad - \begin{array}{r} 10 \\ 1 \end{array} \quad - \begin{array}{r} 14 \\ 7 \end{array} \quad + \begin{array}{r} 8 \\ 4 \end{array} \quad + \begin{array}{r} 1 \\ 4 \end{array} \quad \times \begin{array}{r} 10 \\ 8 \end{array} \quad - \begin{array}{r} 15 \\ 9 \end{array}$$

$$-\frac{12}{7} + \frac{5}{1} + \frac{3}{4} + \frac{10}{10} + \frac{5}{5} - \frac{11}{7} \times \frac{6}{8} + \frac{4}{1} - \frac{14}{5} - \frac{5}{2}$$

$$\begin{array}{ccccccccccccc} \times & 4 & & \times & 1 & & - & 5 & & - & 12 & & - & 14 & & - & 2 & & \times & 2 & & + & 7 & & \times & 8 & & + & 5 \\ \times & 8 & & \times & 3 & & - & 1 & & - & 9 & & - & 6 & & - & 1 & & \times & 9 & & + & 10 & & \times & 8 & & + & 9 \end{array}$$

$$-\frac{8}{7} - \frac{15}{6} + \frac{9}{10} \times \frac{10}{2} + \frac{4}{6} + \frac{4}{1} - \frac{7}{1} + \frac{6}{4} + \frac{6}{5} + \frac{9}{9}$$

Opérations Mixtes Solutions (J)

Complétez les exercices suivants

$$\begin{array}{r}
 + \frac{10}{16} \quad \times \frac{9}{27} \quad - \frac{12}{6} \quad + \frac{4}{5} \quad - \frac{7}{5} \quad \times \frac{6}{54} \quad - \frac{14}{8} \quad - \frac{3}{1} \quad + \frac{10}{20} \quad \times \frac{5}{30} \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 \times \frac{5}{4} \quad \times \frac{8}{40} \quad + \frac{3}{5} \quad - \frac{12}{10} \quad + \frac{3}{6} \quad + \frac{6}{10} \quad - \frac{7}{1} \quad + \frac{10}{7} \quad + \frac{1}{1} \quad + \frac{3}{2} \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 \times \frac{6}{54} \quad + \frac{9}{14} \quad + \frac{5}{9} \quad \times \frac{4}{16} \quad \times \frac{5}{20} \quad + \frac{1}{10} \quad + \frac{4}{10} \quad - \frac{11}{6} \quad + \frac{1}{11} \quad + \frac{3}{5} \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 + \frac{10}{11} \quad \times \frac{3}{1} \quad - \frac{10}{7} \quad - \frac{13}{10} \quad - \frac{8}{4} \quad - \frac{6}{4} \quad - \frac{5}{3} \quad + \frac{3}{5} \quad + \frac{3}{8} \quad - \frac{11}{7} \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 \times \frac{2}{20} \quad + \frac{5}{11} \quad \times \frac{6}{72} \quad + \frac{9}{8} \quad + \frac{2}{4} \quad \times \frac{3}{18} \quad \times \frac{5}{30} \quad + \frac{7}{10} \quad + \frac{3}{7} \quad \times \frac{10}{80} \quad \times \frac{2}{5} \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 + \frac{1}{4} \quad + \frac{3}{5} \quad \times \frac{2}{12} \quad + \frac{5}{10} \quad \times \frac{7}{49} \quad \times \frac{9}{45} \quad \times \frac{7}{7} \quad \times \frac{1}{4} \quad + \frac{1}{11} \quad - \frac{1}{1} \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 \times \frac{4}{28} \quad \times \frac{7}{42} \quad + \frac{3}{6} \quad + \frac{2}{5} \quad + \frac{6}{14} \quad - \frac{10}{1} \quad - \frac{14}{9} \quad + \frac{8}{7} \quad + \frac{1}{12} \quad + \frac{4}{5} \quad \times \frac{10}{80} \quad - \frac{15}{6} \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 - \frac{12}{5} \quad + \frac{5}{6} \quad + \frac{3}{7} \quad + \frac{10}{20} \quad + \frac{5}{10} \quad - \frac{11}{7} \quad \times \frac{6}{48} \quad + \frac{4}{5} \quad - \frac{14}{9} \quad - \frac{5}{9} \quad - \frac{2}{3} \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 \times \frac{8}{32} \quad \times \frac{4}{3} \quad - \frac{1}{3} \quad - \frac{5}{4} \quad - \frac{12}{9} \quad - \frac{14}{8} \quad - \frac{2}{1} \quad \times \frac{2}{18} \quad + \frac{7}{17} \quad \times \frac{8}{64} \quad + \frac{5}{14} \\
 \hline
 \end{array}$$

$$\begin{array}{r}
 - \frac{8}{1} \quad - \frac{15}{9} \quad + \frac{9}{19} \quad + \frac{10}{20} \quad \times \frac{2}{10} \quad + \frac{4}{6} \quad + \frac{4}{5} \quad - \frac{7}{1} \quad + \frac{6}{6} \quad + \frac{6}{10} \quad + \frac{5}{11} \quad + \frac{9}{18} \\
 \hline
 \end{array}$$