

## Opérations Mixtes (A)

## Complétez les exercices suivants

$$\begin{array}{r} \underline{- 18} \\ - 20 \\ + 15 \\ \hline \end{array} \quad \begin{array}{r} 7 \\ + 10 \\ + 16 \\ \hline \end{array} \quad \begin{array}{r} 5 \\ + 14 \\ \hline \end{array} \quad \begin{array}{r} 23 \\ - 13 \\ \hline \end{array} \quad \begin{array}{r} 16 \\ - 13 \\ \hline \end{array} \quad \begin{array}{r} 10 \\ + 9 \\ \hline \end{array} \quad \begin{array}{r} 27 \\ - 9 \\ \hline \end{array}$$

$$\begin{array}{r}
 -\frac{21}{6} \quad -\frac{22}{7} \quad -\frac{23}{7} \quad -\frac{30}{18} \quad -\frac{39}{19} \quad +\frac{4}{11} \quad -\frac{8}{6} \quad +\frac{8}{17} \quad +\frac{17}{14} \quad +\frac{11}{4}
 \end{array}$$

$$-\frac{19}{12} - \frac{23}{10} + \frac{19}{12} - \frac{12}{1} - \frac{23}{20} + \frac{5}{1} + \frac{17}{16} + \frac{6}{12} + \frac{3}{18} - \frac{30}{13}$$

$$+ \begin{array}{r} 5 \\ 16 \end{array} - \begin{array}{r} 29 \\ 11 \end{array} - \begin{array}{r} 33 \\ 15 \end{array} - \begin{array}{r} 24 \\ 6 \end{array} + \begin{array}{r} 7 \\ 13 \end{array} - \begin{array}{r} 30 \\ 20 \end{array} - \begin{array}{r} 22 \\ 15 \end{array} - \begin{array}{r} 34 \\ 15 \end{array} + \begin{array}{r} 18 \\ 2 \end{array} - \begin{array}{r} 25 \\ 15 \end{array}$$

$$- \frac{5}{1} + \frac{2}{12} + \frac{11}{6} + \frac{11}{6} - \frac{29}{11} - \frac{34}{14} + \frac{17}{19} + \frac{19}{7} + \frac{9}{1} + \frac{12}{14}$$

$$+ \frac{4}{11} + \frac{12}{9} - \frac{20}{5} - \frac{28}{11} - \frac{12}{11} + \frac{13}{15} - \frac{30}{17} - \frac{34}{20} + \frac{2}{11} + \frac{4}{5}$$

$$+ \begin{array}{r} 14 \\ 8 \end{array} \quad + \begin{array}{r} 16 \\ 13 \end{array} \quad + \begin{array}{r} 11 \\ 18 \end{array} \quad - \begin{array}{r} 24 \\ 6 \end{array} \quad - \begin{array}{r} 10 \\ 7 \end{array} \quad + \begin{array}{r} 11 \\ 2 \end{array} \quad - \begin{array}{r} 20 \\ 3 \end{array} \quad + \begin{array}{r} 19 \\ 9 \end{array} \quad + \begin{array}{r} 4 \\ 9 \end{array} \quad - \begin{array}{r} 23 \\ 4 \end{array}$$

$$-\frac{33}{16} = \frac{29}{12} + \frac{15}{3} + \frac{4}{3} - \frac{36}{19} + \frac{13}{10} + \frac{12}{15} + \frac{15}{18} + \frac{19}{13} + \frac{22}{5}$$

$$= \frac{11}{6} - \frac{10}{6} - \frac{20}{12} + \frac{17}{2} - \frac{27}{14} - \frac{17}{6} - \frac{22}{17} + \frac{6}{11} + \frac{2}{16} - \frac{25}{8}$$

$$-\frac{37}{20} + \frac{4}{9} + \frac{17}{6} + \frac{16}{17} - \frac{29}{16} - \frac{25}{8} - \frac{15}{4} - \frac{20}{1} + \frac{7}{6} + \frac{5}{13}$$

# Opérations Mixtes Solutions (A)

Complétez les exercices suivants

$$\begin{array}{r}
 -33 & -28 & +14 & 7 & +17 & +5 & -23 & -16 & +10 & 27 \\
 -18 & -20 & +15 & +10 & +16 & +14 & -13 & -13 & +9 & -9 \\
 \hline
 15 & 8 & 29 & 17 & 33 & 19 & 10 & 3 & 19 & 18
 \end{array}$$
  

$$\begin{array}{r}
 -21 & -22 & -23 & 30 & 39 & 4 & 8 & 8 & 17 & 11 \\
 -6 & -7 & -7 & -18 & -19 & +11 & -6 & +17 & +14 & +4 \\
 \hline
 15 & 15 & 16 & 12 & 20 & 15 & 2 & 25 & 31 & 15
 \end{array}$$
  

$$\begin{array}{r}
 -19 & -23 & +19 & 12 & 23 & 5 & 17 & 6 & 3 & 30 \\
 -12 & -10 & +12 & -1 & -20 & +1 & +16 & +12 & +18 & -13 \\
 \hline
 7 & 13 & 31 & 11 & 3 & 6 & 33 & 18 & 21 & 17
 \end{array}$$
  

$$\begin{array}{r}
 5 & 29 & 33 & 24 & 7 & 30 & 22 & 34 & 18 & 25 \\
 +16 & -11 & -15 & -6 & +13 & -20 & -15 & -15 & +2 & -15 \\
 \hline
 21 & 18 & 18 & 18 & 20 & 10 & 7 & 19 & 20 & 10
 \end{array}$$
  

$$\begin{array}{r}
 5 & 2 & 11 & 11 & 29 & 34 & 17 & 19 & 9 & 12 \\
 -1 & +12 & +6 & +6 & -11 & -14 & +19 & +7 & +1 & +14 \\
 \hline
 4 & 14 & 17 & 17 & 18 & 20 & 36 & 26 & 10 & 26
 \end{array}$$
  

$$\begin{array}{r}
 4 & 12 & 20 & 28 & 12 & 13 & 30 & 34 & 2 & 4 \\
 +11 & +9 & -5 & -11 & -11 & +15 & -17 & -20 & +11 & +5 \\
 \hline
 15 & 21 & 15 & 17 & 1 & 28 & 13 & 14 & 13 & 9
 \end{array}$$
  

$$\begin{array}{r}
 14 & 16 & 11 & 24 & 10 & 11 & 20 & 19 & 4 & 23 \\
 +8 & +13 & +18 & -6 & -7 & +2 & -3 & +9 & +9 & -4 \\
 \hline
 22 & 29 & 29 & 18 & 3 & 13 & 17 & 28 & 13 & 19
 \end{array}$$
  

$$\begin{array}{r}
 -33 & -29 & +15 & 4 & 36 & 13 & 12 & 15 & 19 & 22 \\
 -16 & -12 & +3 & +3 & -19 & +10 & +15 & +18 & +13 & -5 \\
 \hline
 17 & 17 & 18 & 7 & 17 & 23 & 27 & 33 & 32 & 17
 \end{array}$$
  

$$\begin{array}{r}
 -11 & -10 & -20 & 17 & 27 & 17 & 22 & 6 & 2 & 25 \\
 -6 & -6 & -12 & +2 & -14 & -6 & -17 & +11 & +16 & -8 \\
 \hline
 5 & 4 & 8 & 19 & 13 & 11 & 5 & 17 & 18 & 17
 \end{array}$$
  

$$\begin{array}{r}
 -37 & 4 & 17 & 16 & 29 & 25 & 15 & 20 & 7 & 5 \\
 -20 & +9 & +6 & +17 & -16 & -8 & -4 & -1 & +6 & +13 \\
 \hline
 17 & 13 & 23 & 33 & 13 & 17 & 11 & 19 & 13 & 18
 \end{array}$$

## Opérations Mixtes (B)

## Complétez les exercices suivants

$$\begin{array}{r}
 -21 \\
 -19 \\
 \hline
 +10 \\
 +9 \\
 \hline
 -5 \\
 -13 \\
 \hline
 -26 \\
 -4 \\
 \hline
 -21 \\
 -14 \\
 \hline
 -33 \\
 -8 \\
 \hline
 -14 \\
 -13 \\
 \hline
 -27 \\
 -17 \\
 \hline
 +11 \\
 +10 \\
 \hline
 2
 \end{array}$$

$$\begin{array}{r}
 + \ 3 \\
 + 14 \\
 \hline
 + \ 19 \\
 + \ 5 \\
 \hline
 - \ 28 \\
 - 12 \\
 \hline
 + \ 10 \\
 + 17 \\
 \hline
 + \ 17 \\
 + 10 \\
 \hline
 - \ 5 \\
 - 1 \\
 \hline
 - \ 16 \\
 - 1 \\
 \hline
 + \ 19 \\
 + 2 \\
 \hline
 - \ 27 \\
 - 17 \\
 \hline
 + \ 5 \\
 + 16 \\
 \hline
 \end{array}$$

$$-\frac{24}{19} + \frac{16}{17} + \frac{16}{1} - \frac{12}{9} + \frac{2}{1} - \frac{23}{6} + \frac{3}{7} - \frac{9}{3} - \frac{21}{16} - \frac{35}{19}$$

$$+ \frac{3}{18} + \frac{12}{6} + \frac{19}{4} + \frac{1}{6} - \frac{32}{20} + \frac{9}{13} - \frac{5}{1} - \frac{5}{1} - \frac{25}{16} - \frac{14}{6}$$

$$+ \begin{array}{r} 2 \\ 7 \end{array} + \begin{array}{r} 1 \\ 17 \end{array} - \begin{array}{r} 19 \\ 10 \end{array} - \begin{array}{r} 15 \\ 1 \end{array} - \begin{array}{r} 37 \\ 18 \end{array} + \begin{array}{r} 8 \\ 18 \end{array} - \begin{array}{r} 28 \\ 16 \end{array} - \begin{array}{r} 15 \\ 10 \end{array} + \begin{array}{r} 13 \\ 11 \end{array} + \begin{array}{r} 4 \\ 11 \end{array}$$

$$+ \frac{15}{8} - \frac{21}{7} - \frac{21}{14} - \frac{11}{5} + \frac{7}{12} + \frac{9}{10} + \frac{17}{15} - \frac{32}{12} - \frac{31}{13} + \frac{1}{6}$$

$$= \frac{23}{10} = \frac{26}{20} = \frac{18}{14} = \frac{32}{13} = \frac{12}{8} = \frac{1}{9} = \frac{29}{15} = \frac{12}{3} = \frac{21}{14} = \frac{14}{6}$$

$$= \frac{29}{14} + \frac{13}{6} - \frac{10}{8} + \frac{13}{8} + \frac{3}{16} = \frac{14}{3} + \frac{6}{16} - \frac{32}{18} + \frac{4}{7} + \frac{6}{9}$$

$$+ \begin{matrix} 20 \\ 19 \end{matrix} \quad - \begin{matrix} 23 \\ 12 \end{matrix} \quad + \begin{matrix} 14 \\ 9 \end{matrix} \quad - \begin{matrix} 16 \\ 9 \end{matrix} \quad + \begin{matrix} 8 \\ 19 \end{matrix} \quad - \begin{matrix} 16 \\ 14 \end{matrix} \quad + \begin{matrix} 3 \\ 7 \end{matrix} \quad - \begin{matrix} 20 \\ 12 \end{matrix} \quad + \begin{matrix} 3 \\ 4 \end{matrix} \quad - \begin{matrix} 21 \\ 9 \end{matrix}$$

$$+ \frac{14}{2} - \frac{28}{14} - \frac{21}{19} + \frac{5}{16} + \frac{14}{15} + \frac{15}{7} - \frac{26}{9} + \frac{10}{18} - \frac{15}{11} + \frac{14}{7}$$

# Opérations Mixtes Solutions (B)

Complétez les exercices suivants

$$\begin{array}{r} -21 \\ -19 \\ \hline 2 \end{array} \quad \begin{array}{r} +10 \\ +9 \\ \hline 19 \end{array} \quad \begin{array}{r} -6 \\ -5 \\ \hline 1 \end{array} \quad \begin{array}{r} -26 \\ -13 \\ \hline 13 \end{array} \quad \begin{array}{r} -21 \\ -4 \\ \hline 17 \end{array} \quad \begin{array}{r} -33 \\ -14 \\ \hline 19 \end{array} \quad \begin{array}{r} -14 \\ -8 \\ \hline 6 \end{array} \quad \begin{array}{r} -27 \\ -13 \\ \hline 14 \end{array} \quad \begin{array}{r} +11 \\ +17 \\ \hline 28 \end{array} \quad \begin{array}{r} 2 \\ +10 \\ \hline 12 \end{array}$$
$$\begin{array}{r} +3 \\ +14 \\ \hline 17 \end{array} \quad \begin{array}{r} +19 \\ +5 \\ \hline 24 \end{array} \quad \begin{array}{r} -28 \\ -12 \\ \hline 16 \end{array} \quad \begin{array}{r} +10 \\ +17 \\ \hline 27 \end{array} \quad \begin{array}{r} -5 \\ -1 \\ \hline 4 \end{array} \quad \begin{array}{r} -16 \\ -1 \\ \hline 15 \end{array} \quad \begin{array}{r} -19 \\ -1 \\ \hline 21 \end{array} \quad \begin{array}{r} +27 \\ +2 \\ \hline 21 \end{array} \quad \begin{array}{r} 5 \\ +16 \\ \hline 21 \end{array}$$
$$\begin{array}{r} -24 \\ -19 \\ \hline 5 \end{array} \quad \begin{array}{r} +16 \\ +17 \\ \hline 33 \end{array} \quad \begin{array}{r} +16 \\ +1 \\ \hline 17 \end{array} \quad \begin{array}{r} -12 \\ -9 \\ \hline 3 \end{array} \quad \begin{array}{r} 2 \\ +1 \\ \hline 3 \end{array} \quad \begin{array}{r} -23 \\ -6 \\ \hline 17 \end{array} \quad \begin{array}{r} 3 \\ +7 \\ \hline 10 \end{array} \quad \begin{array}{r} 9 \\ -3 \\ \hline 6 \end{array} \quad \begin{array}{r} -21 \\ -16 \\ \hline 5 \end{array} \quad \begin{array}{r} 35 \\ -19 \\ \hline 16 \end{array}$$
$$\begin{array}{r} +3 \\ +18 \\ \hline 21 \end{array} \quad \begin{array}{r} +12 \\ +6 \\ \hline 18 \end{array} \quad \begin{array}{r} +19 \\ +4 \\ \hline 23 \end{array} \quad \begin{array}{r} 1 \\ +6 \\ \hline 7 \end{array} \quad \begin{array}{r} -32 \\ -20 \\ \hline 12 \end{array} \quad \begin{array}{r} 9 \\ +13 \\ \hline 22 \end{array} \quad \begin{array}{r} 5 \\ -1 \\ \hline 4 \end{array} \quad \begin{array}{r} 5 \\ -1 \\ \hline 4 \end{array} \quad \begin{array}{r} 25 \\ -16 \\ \hline 9 \end{array} \quad \begin{array}{r} 14 \\ -6 \\ \hline 8 \end{array}$$
$$\begin{array}{r} +2 \\ +7 \\ \hline 9 \end{array} \quad \begin{array}{r} 1 \\ +17 \\ \hline 18 \end{array} \quad \begin{array}{r} -19 \\ -10 \\ \hline 9 \end{array} \quad \begin{array}{r} 15 \\ -1 \\ \hline 14 \end{array} \quad \begin{array}{r} -37 \\ -18 \\ \hline 19 \end{array} \quad \begin{array}{r} 8 \\ +18 \\ \hline 26 \end{array} \quad \begin{array}{r} 28 \\ -16 \\ \hline 12 \end{array} \quad \begin{array}{r} 15 \\ -10 \\ \hline 5 \end{array} \quad \begin{array}{r} 13 \\ +11 \\ \hline 24 \end{array} \quad \begin{array}{r} 4 \\ +11 \\ \hline 15 \end{array}$$
$$\begin{array}{r} +15 \\ +8 \\ \hline 23 \end{array} \quad \begin{array}{r} 21 \\ -7 \\ \hline 14 \end{array} \quad \begin{array}{r} 21 \\ -14 \\ \hline 7 \end{array} \quad \begin{array}{r} 11 \\ -5 \\ \hline 6 \end{array} \quad \begin{array}{r} 7 \\ +12 \\ \hline 19 \end{array} \quad \begin{array}{r} 9 \\ +10 \\ \hline 19 \end{array} \quad \begin{array}{r} 17 \\ +15 \\ \hline 32 \end{array} \quad \begin{array}{r} 32 \\ -12 \\ \hline 20 \end{array} \quad \begin{array}{r} 31 \\ -13 \\ \hline 18 \end{array} \quad \begin{array}{r} 1 \\ +6 \\ \hline 7 \end{array}$$
$$\begin{array}{r} -23 \\ -10 \\ \hline 13 \end{array} \quad \begin{array}{r} 26 \\ -20 \\ \hline 6 \end{array} \quad \begin{array}{r} 18 \\ -14 \\ \hline 4 \end{array} \quad \begin{array}{r} 32 \\ -13 \\ \hline 19 \end{array} \quad \begin{array}{r} 12 \\ +8 \\ \hline 20 \end{array} \quad \begin{array}{r} 1 \\ +9 \\ \hline 10 \end{array} \quad \begin{array}{r} 29 \\ -15 \\ \hline 14 \end{array} \quad \begin{array}{r} 12 \\ +3 \\ \hline 15 \end{array} \quad \begin{array}{r} 21 \\ -14 \\ \hline 7 \end{array} \quad \begin{array}{r} 14 \\ -6 \\ \hline 8 \end{array}$$
$$\begin{array}{r} -29 \\ -14 \\ \hline 15 \end{array} \quad \begin{array}{r} 13 \\ +6 \\ \hline 19 \end{array} \quad \begin{array}{r} 10 \\ -8 \\ \hline 2 \end{array} \quad \begin{array}{r} 13 \\ +8 \\ \hline 21 \end{array} \quad \begin{array}{r} 3 \\ +16 \\ \hline 19 \end{array} \quad \begin{array}{r} 14 \\ -3 \\ \hline 11 \end{array} \quad \begin{array}{r} 6 \\ +16 \\ \hline 22 \end{array} \quad \begin{array}{r} 32 \\ -18 \\ \hline 14 \end{array} \quad \begin{array}{r} 4 \\ +7 \\ \hline 11 \end{array} \quad \begin{array}{r} 6 \\ +9 \\ \hline 15 \end{array}$$
$$\begin{array}{r} +20 \\ +19 \\ \hline 39 \end{array} \quad \begin{array}{r} 23 \\ -12 \\ \hline 11 \end{array} \quad \begin{array}{r} 14 \\ +9 \\ \hline 23 \end{array} \quad \begin{array}{r} 16 \\ -9 \\ \hline 7 \end{array} \quad \begin{array}{r} 8 \\ +19 \\ \hline 27 \end{array} \quad \begin{array}{r} 16 \\ -14 \\ \hline 2 \end{array} \quad \begin{array}{r} 3 \\ +7 \\ \hline 10 \end{array} \quad \begin{array}{r} 20 \\ -12 \\ \hline 8 \end{array} \quad \begin{array}{r} 3 \\ +4 \\ \hline 7 \end{array} \quad \begin{array}{r} 21 \\ -9 \\ \hline 12 \end{array}$$
$$\begin{array}{r} +14 \\ +2 \\ \hline 16 \end{array} \quad \begin{array}{r} 28 \\ -14 \\ \hline 14 \end{array} \quad \begin{array}{r} 21 \\ -19 \\ \hline 2 \end{array} \quad \begin{array}{r} 5 \\ +16 \\ \hline 21 \end{array} \quad \begin{array}{r} 14 \\ +15 \\ \hline 29 \end{array} \quad \begin{array}{r} 15 \\ +7 \\ \hline 22 \end{array} \quad \begin{array}{r} 26 \\ -9 \\ \hline 17 \end{array} \quad \begin{array}{r} 10 \\ +18 \\ \hline 28 \end{array} \quad \begin{array}{r} 15 \\ -11 \\ \hline 4 \end{array} \quad \begin{array}{r} 14 \\ +7 \\ \hline 21 \end{array}$$

# Opérations Mixtes (C)

Complétez les exercices suivants

$$\begin{array}{r} 21 \\ - 2 \\ \hline + 17 \end{array} \quad \begin{array}{r} 4 \\ - 12 \\ \hline - 15 \end{array} \quad \begin{array}{r} 18 \\ - 17 \\ \hline + 1 \end{array} \quad \begin{array}{r} 19 \\ - 3 \\ \hline - 17 \end{array} \quad \begin{array}{r} 6 \\ - 20 \\ \hline - 3 \end{array} \quad \begin{array}{r} 9 \\ - 11 \\ \hline + 5 \end{array} \quad \begin{array}{r} 11 \\ - 14 \\ \hline + 15 \end{array} \quad \begin{array}{r} 10 \\ - 1 \\ \hline \end{array}$$

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

$$\begin{array}{r} 11 \\ + 8 \\ \hline - 13 \end{array} \quad \begin{array}{r} 29 \\ - 5 \\ \hline - 9 \end{array} \quad \begin{array}{r} 11 \\ - 9 \\ \hline + 15 \end{array} \quad \begin{array}{r} 23 \\ - 15 \\ \hline + 18 \end{array} \quad \begin{array}{r} 10 \\ - 18 \\ \hline + 8 \end{array} \quad \begin{array}{r} 6 \\ - 16 \\ \hline + 8 \end{array} \quad \begin{array}{r} 9 \\ - 13 \\ \hline - 13 \end{array} \quad \begin{array}{r} 16 \\ - 17 \\ \hline - 17 \end{array} \quad \begin{array}{r} 18 \\ - 15 \\ \hline + 15 \end{array}$$

$$\begin{array}{r} 16 \\ - 2 \\ \hline + 15 \end{array} \quad \begin{array}{r} 16 \\ + 11 \\ \hline - 12 \end{array} \quad \begin{array}{r} 6 \\ + 11 \\ \hline - 12 \end{array} \quad \begin{array}{r} 28 \\ - 14 \\ \hline - 14 \end{array} \quad \begin{array}{r} 15 \\ - 7 \\ \hline - 7 \end{array} \quad \begin{array}{r} 8 \\ - 1 \\ \hline - 1 \end{array} \quad \begin{array}{r} 19 \\ - 1 \\ \hline + 1 \end{array} \quad \begin{array}{r} 1 \\ - 1 \\ \hline + 12 \end{array} \quad \begin{array}{r} 15 \\ - 19 \\ \hline + 19 \end{array}$$

$$\begin{array}{r} 24 \\ - 9 \\ \hline - 2 \end{array} \quad \begin{array}{r} 18 \\ - 8 \\ \hline - 3 \end{array} \quad \begin{array}{r} 13 \\ - 8 \\ \hline - 3 \end{array} \quad \begin{array}{r} 10 \\ - 5 \\ \hline - 5 \end{array} \quad \begin{array}{r} 7 \\ - 5 \\ \hline + 13 \end{array} \quad \begin{array}{r} 15 \\ - 3 \\ \hline + 18 \end{array} \quad \begin{array}{r} 3 \\ - 18 \\ \hline + 16 \end{array} \quad \begin{array}{r} 18 \\ - 11 \\ \hline - 10 \end{array} \quad \begin{array}{r} 11 \\ - 10 \\ \hline - 4 \end{array}$$

$$\begin{array}{r} 20 \\ - 6 \\ \hline + 1 \end{array} \quad \begin{array}{r} 16 \\ + 5 \\ \hline + 17 \end{array} \quad \begin{array}{r} 5 \\ + 5 \\ \hline + 17 \end{array} \quad \begin{array}{r} 16 \\ - 11 \\ \hline - 11 \end{array} \quad \begin{array}{r} 31 \\ - 11 \\ \hline - 12 \end{array} \quad \begin{array}{r} 16 \\ - 12 \\ \hline - 12 \end{array} \quad \begin{array}{r} 19 \\ - 6 \\ \hline - 16 \end{array} \quad \begin{array}{r} 30 \\ - 16 \\ \hline + 7 \end{array} \quad \begin{array}{r} 18 \\ - 16 \\ \hline - 6 \end{array}$$

$$\begin{array}{r} 16 \\ + 14 \\ \hline + 10 \end{array} \quad \begin{array}{r} 20 \\ - 11 \\ \hline + 16 \end{array} \quad \begin{array}{r} 24 \\ - 11 \\ \hline + 16 \end{array} \quad \begin{array}{r} 18 \\ + 20 \\ \hline + 20 \end{array} \quad \begin{array}{r} 17 \\ + 20 \\ \hline - 19 \end{array} \quad \begin{array}{r} 31 \\ - 19 \\ \hline - 9 \end{array} \quad \begin{array}{r} 27 \\ - 9 \\ \hline - 17 \end{array} \quad \begin{array}{r} 28 \\ - 17 \\ \hline - 13 \end{array} \quad \begin{array}{r} 15 \\ - 13 \\ \hline - 1 \end{array}$$

$$\begin{array}{r} 20 \\ - 5 \\ \hline + 16 \end{array} \quad \begin{array}{r} 7 \\ - 16 \\ \hline - 16 \end{array} \quad \begin{array}{r} 31 \\ - 16 \\ \hline - 2 \end{array} \quad \begin{array}{r} 11 \\ - 2 \\ \hline - 18 \end{array} \quad \begin{array}{r} 19 \\ - 18 \\ \hline + 17 \end{array} \quad \begin{array}{r} 10 \\ + 17 \\ \hline - 18 \end{array} \quad \begin{array}{r} 24 \\ - 18 \\ \hline - 13 \end{array} \quad \begin{array}{r} 33 \\ - 13 \\ \hline + 2 \end{array} \quad \begin{array}{r} 18 \\ - 13 \\ \hline - 7 \end{array}$$

$$\begin{array}{r} 9 \\ + 11 \\ \hline + 10 \end{array} \quad \begin{array}{r} 15 \\ - 8 \\ \hline - 8 \end{array} \quad \begin{array}{r} 19 \\ - 8 \\ \hline - 16 \end{array} \quad \begin{array}{r} 26 \\ - 16 \\ \hline - 18 \end{array} \quad \begin{array}{r} 30 \\ - 18 \\ \hline - 13 \end{array} \quad \begin{array}{r} 32 \\ - 13 \\ \hline - 13 \end{array} \quad \begin{array}{r} 19 \\ - 13 \\ \hline + 6 \end{array} \quad \begin{array}{r} 3 \\ + 6 \\ \hline + 1 \end{array} \quad \begin{array}{r} 14 \\ + 1 \\ \hline + 6 \end{array}$$

$$\begin{array}{r} 8 \\ + 2 \\ \hline - 13 \end{array} \quad \begin{array}{r} 20 \\ - 19 \\ \hline - 19 \end{array} \quad \begin{array}{r} 20 \\ - 19 \\ \hline + 19 \end{array} \quad \begin{array}{r} 7 \\ + 5 \\ \hline + 5 \end{array} \quad \begin{array}{r} 14 \\ + 5 \\ \hline + 11 \end{array} \quad \begin{array}{r} 7 \\ + 11 \\ \hline + 9 \end{array} \quad \begin{array}{r} 17 \\ + 9 \\ \hline - 19 \end{array} \quad \begin{array}{r} 28 \\ - 19 \\ \hline - 17 \end{array} \quad \begin{array}{r} 35 \\ - 17 \\ \hline + 2 \end{array}$$

# Opérations Mixtes Solutions (C)

Complétez les exercices suivants

$$\begin{array}{r}
 - & 21 & 4 & 18 & 19 & 6 & 20 & 9 & 11 & 14 & 10 \\
 - & 2 & + 17 & - 12 & - 15 & + 1 & - 17 & - 3 & + 5 & + 15 & + 1 \\
 \hline
 19 & 21 & 6 & 4 & 7 & 3 & 6 & 16 & 29 & 11
 \end{array}$$
  

$$\begin{array}{r}
 - & 19 & 5 & 13 & 4 & 12 & 5 & 6 & 15 & 13 & 10 \\
 - & 2 & + 7 & - 3 & - 3 & - 7 & - 2 & + 10 & - 11 & + 19 & + 18 \\
 \hline
 17 & 12 & 10 & 1 & 5 & 3 & 16 & 4 & 32 & 28
 \end{array}$$
  

$$\begin{array}{r}
 + & 11 & 29 & 11 & 23 & 10 & 6 & 9 & 16 & 18 & 13 \\
 + & 8 & - 13 & - 5 & - 9 & + 15 & + 18 & + 8 & - 13 & - 17 & + 15 \\
 \hline
 19 & 16 & 6 & 14 & 25 & 24 & 17 & 3 & 1 & 28
 \end{array}$$
  

$$\begin{array}{r}
 - & 16 & 16 & 6 & 28 & 15 & 8 & 19 & 1 & 15 & 17 \\
 - & 2 & + 15 & + 11 & - 12 & - 14 & - 7 & - 1 & + 1 & + 12 & + 19 \\
 \hline
 14 & 31 & 17 & 16 & 1 & 1 & 18 & 2 & 27 & 36
 \end{array}$$
  

$$\begin{array}{r}
 - & 24 & 18 & 13 & 10 & 7 & 15 & 3 & 18 & 11 & 13 \\
 - & 9 & - 2 & - 8 & - 3 & - 5 & + 13 & + 18 & + 16 & - 10 & - 4 \\
 \hline
 15 & 16 & 5 & 7 & 2 & 28 & 21 & 34 & 1 & 9
 \end{array}$$
  

$$\begin{array}{r}
 - & 20 & 16 & 5 & 16 & 31 & 16 & 19 & 30 & 18 & 7 \\
 - & 6 & + 1 & + 5 & + 17 & - 11 & - 12 & - 6 & - 16 & + 7 & - 6 \\
 \hline
 14 & 17 & 10 & 33 & 20 & 4 & 13 & 14 & 25 & 1
 \end{array}$$
  

$$\begin{array}{r}
 + & 16 & 20 & 24 & 18 & 17 & 31 & 27 & 28 & 15 & 12 \\
 + & 14 & + 10 & - 11 & + 16 & + 20 & - 19 & - 9 & - 17 & - 13 & - 1 \\
 \hline
 30 & 30 & 13 & 34 & 37 & 12 & 18 & 11 & 2 & 11
 \end{array}$$
  

$$\begin{array}{r}
 - & 20 & 7 & 31 & 11 & 19 & 10 & 24 & 33 & 18 & 13 \\
 - & 5 & + 16 & - 16 & - 2 & - 18 & + 17 & - 18 & - 13 & + 2 & - 7 \\
 \hline
 15 & 23 & 15 & 9 & 1 & 27 & 6 & 20 & 20 & 6
 \end{array}$$
  

$$\begin{array}{r}
 + & 9 & 15 & 19 & 26 & 30 & 32 & 19 & 3 & 14 & 15 \\
 + & 11 & + 10 & - 8 & - 16 & - 18 & - 13 & - 13 & 6 & + 1 & + 6 \\
 \hline
 20 & 25 & 11 & 10 & 12 & 19 & 6 & 9 & 15 & 21
 \end{array}$$
  

$$\begin{array}{r}
 + & 8 & 20 & 20 & 7 & 14 & 7 & 17 & 28 & 35 & 18 \\
 + & 2 & - 13 & - 19 & + 19 & + 5 & + 11 & + 9 & - 19 & - 17 & + 2 \\
 \hline
 10 & 7 & 1 & 26 & 19 & 18 & 26 & 9 & 18 & 20
 \end{array}$$

# Opérations Mixtes (D)

## Complétez les exercices suivants

$$\begin{array}{r}
 + 15 \\
 + 20 \\
 \hline
 - 6
 \end{array}
 \quad
 \begin{array}{r}
 - 16 \\
 - 16 \\
 \hline
 + 8
 \end{array}
 \quad
 \begin{array}{r}
 + 14 \\
 + 14 \\
 \hline
 - 10
 \end{array}
 \quad
 \begin{array}{r}
 + 19 \\
 + 19 \\
 \hline
 + 2
 \end{array}
 \quad
 \begin{array}{r}
 + 15 \\
 + 15 \\
 \hline
 8
 \end{array}$$

$$\begin{array}{r}
 + \frac{6}{7} & + \frac{5}{20} & + \frac{17}{7} & + \frac{6}{5} & + \frac{11}{5} & + \frac{8}{4} & + \frac{9}{11} & + \frac{13}{18} & + \frac{9}{19} & + \frac{12}{11}
 \end{array}$$

$$\begin{array}{r}
 + \frac{17}{4} \\
 - \frac{13}{10} \\
 + \frac{17}{9} \\
 + \frac{1}{13} \\
 + \frac{7}{2} \\
 + \frac{2}{8} \\
 + \frac{18}{7} \\
 + \frac{13}{9} \\
 + \frac{3}{20} \\
 + \frac{10}{10}
 \end{array}$$

$$-\frac{26}{6} + \frac{16}{7} + \frac{16}{20} + \frac{20}{19} - \frac{33}{19} - \frac{10}{7} + \frac{9}{20} - \frac{30}{14} - \frac{19}{7} - \frac{29}{20}$$

$$-\frac{5}{4} - \frac{17}{4} + \frac{9}{18} - \frac{4}{1} + \frac{18}{6} + \frac{3}{19} + \frac{5}{9} + \frac{13}{15} + \frac{11}{17} - \frac{9}{1}$$

$$-\frac{17}{15} + \frac{6}{15} - \frac{17}{14} + \frac{9}{13} - \frac{3}{2} + \frac{7}{20} + \frac{13}{3} - \frac{20}{11} - \frac{32}{17} - \frac{32}{14}$$

$$\begin{array}{ccccccccccccc}
 + & 10 & & 14 & & - & 30 & & 20 & & - & 30 & & 20 & - & 8 & + & 12 & + & 6 & - & 36 \\
 + & 12 & & + & 10 & & - & 18 & & + & 19 & & - & 19 & & + & 5 & - & 6 & + & 9 & + & 8 & - & 16
 \end{array}$$

$$+ \begin{array}{r} 19 \\ 18 \end{array} - \begin{array}{r} 27 \\ 20 \end{array} - \begin{array}{r} 26 \\ 13 \end{array} - \begin{array}{r} 14 \\ 9 \end{array} - \begin{array}{r} 18 \\ 6 \end{array} + \begin{array}{r} 13 \\ 19 \end{array} - \begin{array}{r} 34 \\ 17 \end{array} + \begin{array}{r} 20 \\ 12 \end{array} - \begin{array}{r} 15 \\ 11 \end{array} + \begin{array}{r} 11 \\ 10 \end{array}$$

$$-\frac{13}{10} + \frac{8}{3} - \frac{22}{19} - \frac{18}{11} - \frac{17}{10} - \frac{15}{14} - \frac{17}{13} - \frac{19}{9} - \frac{15}{9} - \frac{27}{10}$$

$$-\frac{14}{4} - \frac{15}{9} - \frac{20}{18} + \frac{2}{13} + \frac{20}{14} - \frac{14}{11} + \frac{18}{19} + \frac{12}{1} + \frac{10}{19} + \frac{16}{15}$$

# Opérations Mixtes Solutions (D)

Complétez les exercices suivants

$$\begin{array}{r}
 + 15 & - 12 & + 16 & - 20 & - 30 & + 18 & - 12 & + 9 & + 8 & + 18 \\
 + 20 & - 6 & + 8 & - 16 & - 16 & + 14 & - 10 & + 19 & + 2 & + 15 \\
 \hline
 35 & 6 & 24 & 4 & 14 & 32 & 2 & 28 & 10 & 33
 \end{array}$$
  

$$\begin{array}{r}
 + 6 & + 5 & + 17 & + 6 & + 11 & + 8 & + 9 & + 13 & + 9 & + 12 \\
 + 7 & + 20 & + 7 & + 5 & + 5 & + 4 & + 11 & + 18 & + 19 & + 11 \\
 \hline
 13 & 25 & 24 & 11 & 16 & 12 & 20 & 31 & 28 & 23
 \end{array}$$
  

$$\begin{array}{r}
 + 17 & - 13 & + 17 & + 1 & + 7 & + 2 & + 18 & + 13 & + 3 & + 10 \\
 + 4 & - 10 & + 9 & + 13 & + 2 & + 8 & + 7 & + 9 & + 20 & + 10 \\
 \hline
 21 & 3 & 26 & 14 & 9 & 10 & 25 & 22 & 23 & 20
 \end{array}$$
  

$$\begin{array}{r}
 - 26 & + 16 & + 16 & + 20 & + 33 & + 10 & + 9 & + 30 & + 19 & + 29 \\
 - 6 & + 7 & + 20 & + 19 & - 19 & - 7 & + 20 & - 14 & - 7 & - 20 \\
 \hline
 20 & 23 & 36 & 39 & 14 & 3 & 29 & 16 & 12 & 9
 \end{array}$$
  

$$\begin{array}{r}
 - 5 & - 17 & + 9 & - 4 & + 18 & + 3 & + 5 & + 13 & + 11 & + 9 \\
 - 4 & - 4 & + 18 & - 1 & + 6 & + 19 & + 9 & + 15 & + 17 & - 1 \\
 \hline
 1 & 13 & 27 & 3 & 24 & 22 & 14 & 28 & 28 & 8
 \end{array}$$
  

$$\begin{array}{r}
 - 17 & + 6 & + 17 & + 9 & + 3 & + 7 & + 13 & + 20 & + 32 & + 32 \\
 - 15 & + 15 & - 14 & + 13 & - 2 & + 20 & + 3 & - 11 & - 17 & - 14 \\
 \hline
 2 & 21 & 3 & 22 & 1 & 27 & 16 & 9 & 15 & 18
 \end{array}$$
  

$$\begin{array}{r}
 + 10 & + 14 & - 30 & + 20 & + 30 & + 20 & + 8 & + 12 & + 6 & + 36 \\
 + 12 & + 10 & - 18 & + 19 & - 19 & + 5 & - 6 & + 9 & + 8 & - 16 \\
 \hline
 22 & 24 & 12 & 39 & 11 & 25 & 2 & 21 & 14 & 20
 \end{array}$$
  

$$\begin{array}{r}
 + 19 & - 27 & + 26 & - 14 & + 18 & + 13 & + 34 & + 20 & + 15 & + 11 \\
 + 18 & - 20 & - 13 & - 9 & - 6 & + 19 & - 17 & + 12 & - 11 & + 10 \\
 \hline
 37 & 7 & 13 & 5 & 12 & 32 & 17 & 32 & 4 & 21
 \end{array}$$
  

$$\begin{array}{r}
 - 13 & + 8 & - 22 & + 18 & + 17 & + 15 & + 17 & + 19 & + 15 & + 27 \\
 - 10 & + 3 & - 19 & - 11 & - 10 & - 14 & - 13 & - 9 & - 9 & - 10 \\
 \hline
 3 & 11 & 3 & 7 & 7 & 1 & 4 & 10 & 6 & 17
 \end{array}$$
  

$$\begin{array}{r}
 - 14 & - 15 & - 20 & + 2 & + 20 & + 14 & + 14 & + 18 & + 12 & + 10 \\
 - 4 & - 9 & - 18 & + 13 & + 14 & - 11 & 3 & 37 & 13 & + 15 \\
 \hline
 10 & 6 & 2 & 15 & 34 & 3 & 37 & 29 & 29 & 31
 \end{array}$$

# Opérations Mixtes (E)

## Complétez les exercices suivants

$$\begin{array}{r}
 -13 \\
 -7 \\
 \hline
 +18 \\
 +1 \\
 \hline
 +10 \\
 +4 \\
 \hline
 +17 \\
 +6 \\
 \hline
 +12 \\
 +8 \\
 \hline
 +5 \\
 +11 \\
 \hline
 -21 \\
 -17 \\
 \hline
 +14 \\
 +20 \\
 \hline
 -21 \\
 -3 \\
 \hline
 +2 \\
 +7
 \end{array}$$

$$\begin{array}{r}
 + 3 \\
 + 14 \\
 \hline
 - 29 \\
 - 15 \\
 \hline
 + 20 \\
 + 20 \\
 \hline
 - 18 \\
 - 18 \\
 \hline
 + 15 \\
 + 4 \\
 \hline
 - 20 \\
 - 16 \\
 \hline
 + 11 \\
 + 18 \\
 \hline
 + 9 \\
 + 10 \\
 \hline
 - 27 \\
 - 15 \\
 \hline
 + 6 \\
 + 5
 \end{array}$$

$$\begin{array}{r}
 + 5 \\
 + 11 \\
 \hline
 + 14 \\
 + 15 \\
 \hline
 - 4 \\
 - 3 \\
 \hline
 - 9 \\
 - 7 \\
 \hline
 + 13 \\
 + 7 \\
 \hline
 - 5 \\
 - 8 \\
 \hline
 - 13 \\
 - 16 \\
 \hline
 + 10 \\
 + 18 \\
 \hline
 \end{array}$$

$$+ \begin{array}{r} 7 \\ 11 \end{array} - \begin{array}{r} 21 \\ 7 \end{array} - \begin{array}{r} 18 \\ 15 \end{array} - \begin{array}{r} 25 \\ 11 \end{array} - \begin{array}{r} 33 \\ 19 \end{array} + \begin{array}{r} 9 \\ 7 \end{array} + \begin{array}{r} 20 \\ 16 \end{array} - \begin{array}{r} 11 \\ 1 \end{array} - \begin{array}{r} 25 \\ 16 \end{array} + \begin{array}{r} 4 \\ 4 \end{array}$$

$$-\frac{13}{4} + \frac{12}{20} - \frac{26}{18} - \frac{21}{15} + \frac{15}{18} - \frac{34}{19} + \frac{5}{17} + \frac{12}{15} + \frac{19}{9} + \frac{13}{8}$$

$$-\frac{21}{15} - \frac{32}{19} + \frac{1}{14} - \frac{32}{17} - \frac{17}{2} - \frac{15}{2} + \frac{16}{17} - \frac{24}{12} + \frac{16}{5} + \frac{10}{8}$$

$$- \frac{19}{15} + \frac{16}{19} + \frac{20}{1} + \frac{17}{6} + \frac{14}{14} - \frac{31}{20} + \frac{5}{3} - \frac{28}{8} - \frac{22}{5} + \frac{11}{11}$$

$$+ \frac{8}{19} + \frac{13}{17} + \frac{11}{19} + \frac{17}{8} + \frac{20}{1} - \frac{18}{5} - \frac{21}{6} + \frac{8}{17} + \frac{11}{3} - \frac{15}{7}$$

$$-\frac{24}{13} - \frac{34}{16} + \frac{12}{9} + \frac{8}{4} - \frac{31}{12} + \frac{9}{3} + \frac{10}{16} - \frac{21}{17} + \frac{16}{8} - \frac{19}{14}$$

$$+ \frac{6}{9} - \frac{11}{9} + \frac{5}{18} - \frac{36}{20} - \frac{24}{10} + \frac{11}{5} + \frac{16}{4} - \frac{18}{2} - \frac{19}{9} + \frac{10}{2}$$

# Opérations Mixtes Solutions (E)

Complétez les exercices suivants

$$\begin{array}{r} 13 \\ - 7 \\ \hline 6 \end{array} \quad \begin{array}{r} 18 \\ + 1 \\ \hline 19 \end{array} \quad \begin{array}{r} 10 \\ + 4 \\ \hline 14 \end{array} \quad \begin{array}{r} 17 \\ + 6 \\ \hline 23 \end{array} \quad \begin{array}{r} 12 \\ + 8 \\ \hline 20 \end{array} \quad \begin{array}{r} 5 \\ + 11 \\ \hline 16 \end{array} \quad \begin{array}{r} 21 \\ - 17 \\ \hline 4 \end{array} \quad \begin{array}{r} 14 \\ + 20 \\ \hline 34 \end{array} \quad \begin{array}{r} 21 \\ - 3 \\ \hline 18 \end{array} \quad \begin{array}{r} 2 \\ + 7 \\ \hline 9 \end{array}$$
$$\begin{array}{r} 3 \\ + 14 \\ \hline 17 \end{array} \quad \begin{array}{r} 29 \\ - 15 \\ \hline 14 \end{array} \quad \begin{array}{r} 20 \\ + 20 \\ \hline 40 \end{array} \quad \begin{array}{r} 29 \\ - 18 \\ \hline 11 \end{array} \quad \begin{array}{r} 15 \\ + 4 \\ \hline 19 \end{array} \quad \begin{array}{r} 20 \\ - 16 \\ \hline 4 \end{array} \quad \begin{array}{r} 11 \\ + 18 \\ \hline 29 \end{array} \quad \begin{array}{r} 9 \\ + 10 \\ \hline 19 \end{array} \quad \begin{array}{r} 27 \\ - 15 \\ \hline 12 \end{array} \quad \begin{array}{r} 6 \\ + 5 \\ \hline 11 \end{array}$$
$$\begin{array}{r} 5 \\ + 11 \\ \hline 16 \end{array} \quad \begin{array}{r} 14 \\ + 15 \\ \hline 29 \end{array} \quad \begin{array}{r} 17 \\ - 4 \\ \hline 13 \end{array} \quad \begin{array}{r} 9 \\ - 3 \\ \hline 6 \end{array} \quad \begin{array}{r} 9 \\ - 7 \\ \hline 2 \end{array} \quad \begin{array}{r} 13 \\ + 7 \\ \hline 20 \end{array} \quad \begin{array}{r} 7 \\ - 5 \\ \hline 2 \end{array} \quad \begin{array}{r} 13 \\ - 8 \\ \hline 5 \end{array} \quad \begin{array}{r} 10 \\ + 16 \\ \hline 26 \end{array} \quad \begin{array}{r} 12 \\ + 18 \\ \hline 30 \end{array}$$
$$\begin{array}{r} 7 \\ + 11 \\ \hline 18 \end{array} \quad \begin{array}{r} 21 \\ - 7 \\ \hline 14 \end{array} \quad \begin{array}{r} 18 \\ - 15 \\ \hline 3 \end{array} \quad \begin{array}{r} 25 \\ - 11 \\ \hline 14 \end{array} \quad \begin{array}{r} 33 \\ - 19 \\ \hline 14 \end{array} \quad \begin{array}{r} 9 \\ + 7 \\ \hline 16 \end{array} \quad \begin{array}{r} 20 \\ + 16 \\ \hline 36 \end{array} \quad \begin{array}{r} 11 \\ - 1 \\ \hline 10 \end{array} \quad \begin{array}{r} 25 \\ - 16 \\ \hline 9 \end{array} \quad \begin{array}{r} 4 \\ + 4 \\ \hline 8 \end{array}$$
$$\begin{array}{r} 13 \\ - 4 \\ \hline 9 \end{array} \quad \begin{array}{r} 12 \\ + 20 \\ \hline 32 \end{array} \quad \begin{array}{r} 26 \\ - 18 \\ \hline 8 \end{array} \quad \begin{array}{r} 21 \\ - 15 \\ \hline 6 \end{array} \quad \begin{array}{r} 15 \\ + 18 \\ \hline 33 \end{array} \quad \begin{array}{r} 34 \\ - 19 \\ \hline 15 \end{array} \quad \begin{array}{r} 5 \\ + 17 \\ \hline 22 \end{array} \quad \begin{array}{r} 12 \\ + 15 \\ \hline 27 \end{array} \quad \begin{array}{r} 19 \\ + 9 \\ \hline 28 \end{array} \quad \begin{array}{r} 13 \\ + 8 \\ \hline 21 \end{array}$$
$$\begin{array}{r} 21 \\ - 15 \\ \hline 6 \end{array} \quad \begin{array}{r} 32 \\ - 19 \\ \hline 13 \end{array} \quad \begin{array}{r} 1 \\ + 14 \\ \hline 15 \end{array} \quad \begin{array}{r} 32 \\ - 17 \\ \hline 15 \end{array} \quad \begin{array}{r} 17 \\ - 2 \\ \hline 15 \end{array} \quad \begin{array}{r} 15 \\ - 2 \\ \hline 13 \end{array} \quad \begin{array}{r} 16 \\ + 17 \\ \hline 33 \end{array} \quad \begin{array}{r} 24 \\ - 12 \\ \hline 12 \end{array} \quad \begin{array}{r} 16 \\ + 5 \\ \hline 21 \end{array} \quad \begin{array}{r} 10 \\ + 8 \\ \hline 18 \end{array}$$
$$\begin{array}{r} 19 \\ - 15 \\ \hline 4 \end{array} \quad \begin{array}{r} 16 \\ + 19 \\ \hline 35 \end{array} \quad \begin{array}{r} 20 \\ + 1 \\ \hline 21 \end{array} \quad \begin{array}{r} 17 \\ + 6 \\ \hline 23 \end{array} \quad \begin{array}{r} 14 \\ + 14 \\ \hline 28 \end{array} \quad \begin{array}{r} 31 \\ - 20 \\ \hline 11 \end{array} \quad \begin{array}{r} 5 \\ + 3 \\ \hline 8 \end{array} \quad \begin{array}{r} 28 \\ - 8 \\ \hline 20 \end{array} \quad \begin{array}{r} 22 \\ - 5 \\ \hline 17 \end{array} \quad \begin{array}{r} 11 \\ + 11 \\ \hline 22 \end{array}$$
$$\begin{array}{r} 8 \\ + 19 \\ \hline 27 \end{array} \quad \begin{array}{r} 13 \\ + 17 \\ \hline 30 \end{array} \quad \begin{array}{r} 11 \\ + 19 \\ \hline 30 \end{array} \quad \begin{array}{r} 17 \\ + 8 \\ \hline 25 \end{array} \quad \begin{array}{r} 20 \\ + 1 \\ \hline 21 \end{array} \quad \begin{array}{r} 18 \\ - 5 \\ \hline 13 \end{array} \quad \begin{array}{r} 21 \\ - 6 \\ \hline 15 \end{array} \quad \begin{array}{r} 8 \\ + 17 \\ \hline 25 \end{array} \quad \begin{array}{r} 11 \\ + 3 \\ \hline 14 \end{array} \quad \begin{array}{r} 15 \\ - 7 \\ \hline 8 \end{array}$$
$$\begin{array}{r} 24 \\ - 13 \\ \hline 11 \end{array} \quad \begin{array}{r} 34 \\ - 16 \\ \hline 18 \end{array} \quad \begin{array}{r} 12 \\ + 9 \\ \hline 21 \end{array} \quad \begin{array}{r} 8 \\ + 4 \\ \hline 12 \end{array} \quad \begin{array}{r} 31 \\ - 12 \\ \hline 19 \end{array} \quad \begin{array}{r} 9 \\ + 3 \\ \hline 12 \end{array} \quad \begin{array}{r} 10 \\ + 16 \\ \hline 26 \end{array} \quad \begin{array}{r} 21 \\ - 17 \\ \hline 4 \end{array} \quad \begin{array}{r} 16 \\ + 8 \\ \hline 24 \end{array} \quad \begin{array}{r} 19 \\ - 14 \\ \hline 5 \end{array}$$
$$\begin{array}{r} 6 \\ + 9 \\ \hline 15 \end{array} \quad \begin{array}{r} 11 \\ - 9 \\ \hline 2 \end{array} \quad \begin{array}{r} 5 \\ + 18 \\ \hline 23 \end{array} \quad \begin{array}{r} 36 \\ - 20 \\ \hline 16 \end{array} \quad \begin{array}{r} 24 \\ - 10 \\ \hline 14 \end{array} \quad \begin{array}{r} 11 \\ + 5 \\ \hline 16 \end{array} \quad \begin{array}{r} 16 \\ + 4 \\ \hline 20 \end{array} \quad \begin{array}{r} 18 \\ - 2 \\ \hline 16 \end{array} \quad \begin{array}{r} 19 \\ - 9 \\ \hline 10 \end{array} \quad \begin{array}{r} 10 \\ + 2 \\ \hline 12 \end{array}$$

# Opérations Mixtes (F)

## Complétez les exercices suivants

$$\begin{array}{r}
 -19 & -22 & 5 & 9 & 7 & 4 & 35 & 16 & 11 & 21 \\
 -12 & -6 & +15 & +13 & +7 & +2 & -20 & +11 & -4 & -6 \\
 \hline
\end{array}$$

$$\begin{array}{r} \underline{-17} \\ -16 \end{array} \quad \begin{array}{r} \underline{2} \\ -1 \end{array} \quad \begin{array}{r} \underline{17} \\ -4 \end{array} \quad \begin{array}{r} 1 \\ +4 \end{array} \quad \begin{array}{r} 19 \\ +1 \end{array} \quad \begin{array}{r} 2 \\ +14 \end{array} \quad \begin{array}{r} 25 \\ -17 \end{array} \quad \begin{array}{r} 4 \\ +9 \end{array} \quad \begin{array}{r} 16 \\ +3 \end{array} \quad \begin{array}{r} 15 \\ +4 \end{array}$$

$$\begin{array}{r}
 -20 & -24 & +6 & +15 & +18 & -27 & -28 & -17 & +14 & +1 \\
 \underline{-7} & \underline{-5} & \underline{+18} & \underline{+11} & \underline{+14} & \underline{-10} & \underline{-9} & \underline{-14} & \underline{+1} & \underline{+4}
 \end{array}$$

$$\begin{array}{r}
 14 & 10 & 19 & 11 & 21 & 13 & 14 & 25 & 1 & 13 \\
 + 14 & + 8 & + 7 & + 18 & - 1 & + 6 & + 12 & - 12 & + 16 & - 6 \\
 \hline
\end{array}$$

$$\begin{array}{r}
 3 & -26 & -16 & -13 & 3 & -17 & -6 & 20 & 7 & -28 \\
 +13 & -9 & -12 & -4 & +1 & -4 & -4 & +12 & +10 & -18 \\
 \hline
\end{array}$$

$$\begin{array}{r}
 -\frac{26}{9} \quad -\frac{21}{8} \quad +\frac{2}{10} \quad -\frac{28}{15} \quad +\frac{4}{6} \quad +\frac{15}{13} \quad -\frac{25}{17} \quad +\frac{1}{2} \quad -\frac{31}{19} \quad -\frac{16}{4}
 \end{array}$$

$$\begin{array}{r}
 -15 \\
 -5 \\
 \hline
 +2 \\
 +3 \\
 \hline
 +19 \\
 +14 \\
 \hline
 +19 \\
 +5 \\
 \hline
 -20 \\
 -7 \\
 \hline
 -26 \\
 -10 \\
 \hline
 -17 \\
 -4 \\
 \hline
 -21 \\
 -8 \\
 \hline
 +5 \\
 +18 \\
 \hline
 -11 \\
 -7
 \end{array}$$

$$\begin{array}{r}
 -\frac{27}{14} & -\frac{33}{15} & -\frac{32}{14} & +\frac{1}{14} & -\frac{7}{3} & -\frac{18}{1} & +\frac{9}{1} & +\frac{18}{13} & -\frac{21}{20} & +\frac{11}{6}
 \end{array}$$

$$\begin{array}{r}
 9 & -20 & 1 & -22 & -13 & -17 & -27 & -23 & 3 & 1 \\
 +19 & -15 & +12 & -5 & -12 & -9 & -7 & -9 & -2 & +10 \\
 \hline
\end{array}$$

$$\begin{array}{r}
 15 & 2 & 4 & 35 & 33 & 3 & 34 & 26 & 14 & 5 \\
 -13 & +12 & +13 & -20 & -17 & +13 & -16 & -8 & +6 & +2 \\
 \hline
\end{array}$$

# Opérations Mixtes Solutions (F)

Complétez les exercices suivants

$$\begin{array}{r} -19 \\ -12 \\ \hline 7 \end{array} \quad \begin{array}{r} -22 \\ -6 \\ \hline 16 \end{array} \quad \begin{array}{r} +5 \\ +15 \\ \hline 20 \end{array} \quad \begin{array}{r} +9 \\ +13 \\ \hline 22 \end{array} \quad \begin{array}{r} +7 \\ +7 \\ \hline 14 \end{array} \quad \begin{array}{r} +4 \\ +2 \\ \hline 6 \end{array} \quad \begin{array}{r} -35 \\ -20 \\ \hline 15 \end{array} \quad \begin{array}{r} +16 \\ +11 \\ \hline 27 \end{array} \quad \begin{array}{r} -11 \\ -4 \\ \hline 7 \end{array} \quad \begin{array}{r} -21 \\ -6 \\ \hline 15 \end{array}$$
$$\begin{array}{r} -17 \\ -16 \\ \hline 1 \end{array} \quad \begin{array}{r} -2 \\ -1 \\ \hline 1 \end{array} \quad \begin{array}{r} -17 \\ -4 \\ \hline 13 \end{array} \quad \begin{array}{r} 1 \\ +4 \\ \hline 5 \end{array} \quad \begin{array}{r} +19 \\ +1 \\ \hline 20 \end{array} \quad \begin{array}{r} 2 \\ +14 \\ \hline 16 \end{array} \quad \begin{array}{r} -25 \\ -17 \\ \hline 8 \end{array} \quad \begin{array}{r} 4 \\ +9 \\ \hline 13 \end{array} \quad \begin{array}{r} +16 \\ +3 \\ \hline 19 \end{array} \quad \begin{array}{r} +15 \\ +4 \\ \hline 19 \end{array}$$
$$\begin{array}{r} -20 \\ -7 \\ \hline 13 \end{array} \quad \begin{array}{r} -24 \\ -5 \\ \hline 19 \end{array} \quad \begin{array}{r} +6 \\ +18 \\ \hline 24 \end{array} \quad \begin{array}{r} +15 \\ +11 \\ \hline 26 \end{array} \quad \begin{array}{r} +18 \\ +14 \\ \hline 32 \end{array} \quad \begin{array}{r} -27 \\ -10 \\ \hline 17 \end{array} \quad \begin{array}{r} -28 \\ -9 \\ \hline 19 \end{array} \quad \begin{array}{r} -17 \\ -14 \\ \hline 3 \end{array} \quad \begin{array}{r} +14 \\ +1 \\ \hline 15 \end{array} \quad \begin{array}{r} +1 \\ +4 \\ \hline 5 \end{array}$$
$$\begin{array}{r} +14 \\ +14 \\ \hline 28 \end{array} \quad \begin{array}{r} 10 \\ +8 \\ \hline 18 \end{array} \quad \begin{array}{r} 19 \\ +7 \\ \hline 26 \end{array} \quad \begin{array}{r} 11 \\ +18 \\ \hline 29 \end{array} \quad \begin{array}{r} 21 \\ -1 \\ \hline 20 \end{array} \quad \begin{array}{r} 13 \\ +6 \\ \hline 19 \end{array} \quad \begin{array}{r} 14 \\ +12 \\ \hline 26 \end{array} \quad \begin{array}{r} 25 \\ -12 \\ \hline 13 \end{array} \quad \begin{array}{r} 1 \\ +16 \\ \hline 17 \end{array} \quad \begin{array}{r} 13 \\ -6 \\ \hline 7 \end{array}$$
$$\begin{array}{r} +3 \\ +13 \\ \hline 16 \end{array} \quad \begin{array}{r} -26 \\ -9 \\ \hline 17 \end{array} \quad \begin{array}{r} -16 \\ -12 \\ \hline 4 \end{array} \quad \begin{array}{r} -13 \\ -4 \\ \hline 9 \end{array} \quad \begin{array}{r} 3 \\ +1 \\ \hline 4 \end{array} \quad \begin{array}{r} 17 \\ -4 \\ \hline 13 \end{array} \quad \begin{array}{r} 6 \\ -4 \\ \hline 2 \end{array} \quad \begin{array}{r} 20 \\ +12 \\ \hline 32 \end{array} \quad \begin{array}{r} 7 \\ +10 \\ \hline 17 \end{array} \quad \begin{array}{r} 28 \\ -18 \\ \hline 10 \end{array}$$
$$\begin{array}{r} -26 \\ -9 \\ \hline 17 \end{array} \quad \begin{array}{r} -21 \\ -8 \\ \hline 13 \end{array} \quad \begin{array}{r} 2 \\ +10 \\ \hline 12 \end{array} \quad \begin{array}{r} -28 \\ -15 \\ \hline 13 \end{array} \quad \begin{array}{r} 4 \\ +6 \\ \hline 10 \end{array} \quad \begin{array}{r} 15 \\ +13 \\ \hline 28 \end{array} \quad \begin{array}{r} 25 \\ -17 \\ \hline 8 \end{array} \quad \begin{array}{r} 1 \\ +2 \\ \hline 3 \end{array} \quad \begin{array}{r} 31 \\ -19 \\ \hline 12 \end{array} \quad \begin{array}{r} 16 \\ -4 \\ \hline 12 \end{array}$$
$$\begin{array}{r} -15 \\ -5 \\ \hline 10 \end{array} \quad \begin{array}{r} 2 \\ +3 \\ \hline 5 \end{array} \quad \begin{array}{r} 19 \\ +14 \\ \hline 33 \end{array} \quad \begin{array}{r} 19 \\ +5 \\ \hline 24 \end{array} \quad \begin{array}{r} 20 \\ -7 \\ \hline 13 \end{array} \quad \begin{array}{r} 26 \\ -10 \\ \hline 16 \end{array} \quad \begin{array}{r} 17 \\ -4 \\ \hline 13 \end{array} \quad \begin{array}{r} 21 \\ -8 \\ \hline 13 \end{array} \quad \begin{array}{r} 5 \\ +18 \\ \hline 23 \end{array} \quad \begin{array}{r} 11 \\ -7 \\ \hline 4 \end{array}$$
$$\begin{array}{r} -27 \\ -14 \\ \hline 13 \end{array} \quad \begin{array}{r} -33 \\ -15 \\ \hline 18 \end{array} \quad \begin{array}{r} -32 \\ -14 \\ \hline 18 \end{array} \quad \begin{array}{r} 1 \\ +14 \\ \hline 15 \end{array} \quad \begin{array}{r} 7 \\ -3 \\ \hline 4 \end{array} \quad \begin{array}{r} 18 \\ -1 \\ \hline 17 \end{array} \quad \begin{array}{r} 9 \\ +1 \\ \hline 10 \end{array} \quad \begin{array}{r} 18 \\ +13 \\ \hline 31 \end{array} \quad \begin{array}{r} 21 \\ -20 \\ \hline 1 \end{array} \quad \begin{array}{r} 11 \\ +6 \\ \hline 17 \end{array}$$
$$\begin{array}{r} +9 \\ +19 \\ \hline 28 \end{array} \quad \begin{array}{r} 20 \\ -15 \\ \hline 5 \end{array} \quad \begin{array}{r} 1 \\ +12 \\ \hline 13 \end{array} \quad \begin{array}{r} 22 \\ -5 \\ \hline 17 \end{array} \quad \begin{array}{r} 13 \\ -12 \\ \hline 1 \end{array} \quad \begin{array}{r} 17 \\ -9 \\ \hline 8 \end{array} \quad \begin{array}{r} 27 \\ -7 \\ \hline 20 \end{array} \quad \begin{array}{r} 23 \\ -9 \\ \hline 14 \end{array} \quad \begin{array}{r} 3 \\ -2 \\ \hline 1 \end{array} \quad \begin{array}{r} 1 \\ +10 \\ \hline 11 \end{array}$$
$$\begin{array}{r} -15 \\ -13 \\ \hline 2 \end{array} \quad \begin{array}{r} 2 \\ +12 \\ \hline 14 \end{array} \quad \begin{array}{r} 4 \\ +13 \\ \hline 17 \end{array} \quad \begin{array}{r} 35 \\ -20 \\ \hline 15 \end{array} \quad \begin{array}{r} 33 \\ -17 \\ \hline 16 \end{array} \quad \begin{array}{r} 3 \\ +13 \\ \hline 16 \end{array} \quad \begin{array}{r} 34 \\ -16 \\ \hline 18 \end{array} \quad \begin{array}{r} 26 \\ -8 \\ \hline 18 \end{array} \quad \begin{array}{r} 14 \\ +6 \\ \hline 20 \end{array} \quad \begin{array}{r} 5 \\ +2 \\ \hline 7 \end{array}$$

# Opérations Mixtes (G)

## Complétez les exercices suivants

$$\begin{array}{r}
 + \frac{6}{11} \\
 - \frac{11}{10} \\
 - \frac{31}{17} \\
 + \frac{3}{2} \\
 - \frac{11}{8} \\
 - \frac{35}{17} \\
 - \frac{9}{3} \\
 + \frac{6}{2} \\
 + \frac{2}{7} \\
 - \frac{17}{3}
 \end{array}$$

$$\begin{array}{r}
 + \quad 7 \quad - 22 \quad - 19 \quad - 10 \quad + 16 \quad - 12 \quad - 20 \quad - 27 \quad + 16 \quad + 4 \\
 + \quad 9 \quad - 9 \quad - 17 \quad - 3 \quad + 18 \quad - 7 \quad - 9 \quad - 15 \quad + 6 \quad + 20
 \end{array}$$

$$+ \begin{array}{r} 15 \\ 1 \end{array} + \begin{array}{r} 17 \\ 17 \end{array} + \begin{array}{r} 13 \\ 19 \end{array} - \begin{array}{r} 24 \\ 20 \end{array} + \begin{array}{r} 11 \\ 11 \end{array} + \begin{array}{r} 4 \\ 11 \end{array} - \begin{array}{r} 29 \\ 13 \end{array} - \begin{array}{r} 10 \\ 9 \end{array} + \begin{array}{r} 11 \\ 15 \end{array} - \begin{array}{r} 20 \\ 15 \end{array}$$

$$-\frac{27}{7} - \frac{24}{20} - \frac{36}{16} - \frac{19}{10} - \frac{16}{9} + \frac{4}{4} + \frac{19}{5} - \frac{30}{11} - \frac{26}{13} - \frac{20}{15}$$

$$+ \begin{array}{r} 19 \\ 11 \end{array} \quad + \begin{array}{r} 16 \\ 13 \end{array} \quad - \begin{array}{r} 34 \\ 14 \end{array} \quad - \begin{array}{r} 18 \\ 9 \end{array} \quad - \begin{array}{r} 31 \\ 20 \end{array} \quad - \begin{array}{r} 25 \\ 15 \end{array} \quad - \begin{array}{r} 14 \\ 13 \end{array} \quad + \begin{array}{r} 1 \\ 7 \end{array} \quad + \begin{array}{r} 14 \\ 14 \end{array} \quad - \begin{array}{r} 24 \\ 8 \end{array}$$

$$+ \begin{matrix} 20 \\ 3 \end{matrix} - \begin{matrix} 27 \\ 13 \end{matrix} + \begin{matrix} 15 \\ 14 \end{matrix} + \begin{matrix} 3 \\ 16 \end{matrix} + \begin{matrix} 15 \\ 12 \end{matrix} + \begin{matrix} 4 \\ 18 \end{matrix} + \begin{matrix} 13 \\ 11 \end{matrix} + \begin{matrix} 2 \\ 14 \end{matrix} - \begin{matrix} 12 \\ 9 \end{matrix} + \begin{matrix} 14 \\ 5 \end{matrix}$$

$$+ \begin{array}{r} 15 \\ 20 \end{array} \quad + \begin{array}{r} 18 \\ 12 \end{array} \quad - \begin{array}{r} 35 \\ 19 \end{array} \quad + \begin{array}{r} 14 \\ 8 \end{array} \quad + \begin{array}{r} 1 \\ 9 \end{array} \quad - \begin{array}{r} 11 \\ 7 \end{array} \quad - \begin{array}{r} 21 \\ 20 \end{array} \quad - \begin{array}{r} 14 \\ 2 \end{array} \quad - \begin{array}{r} 9 \\ 8 \end{array} \quad - \begin{array}{r} 3 \\ 1 \end{array}$$

$$= \frac{31}{20} + \frac{7}{15} - \frac{33}{19} + \frac{7}{18} + \frac{13}{1} + \frac{13}{2} + \frac{1}{15} + \frac{17}{6} + \frac{20}{9} + \frac{16}{17}$$

$$= \frac{35}{15} + \frac{10}{11} + \frac{20}{11} - \frac{18}{9} + \frac{6}{19} - \frac{31}{12} + \frac{18}{20} - \frac{6}{4} + \frac{15}{10} - \frac{25}{9}$$

$$= \frac{26}{16} - \frac{18}{6} - \frac{12}{8} - \frac{14}{1} + \frac{4}{9} = \frac{20}{11} + \frac{20}{14} - \frac{18}{3} = \frac{24}{7} - \frac{20}{9}$$

# Opérations Mixtes Solutions (G)

Complétez les exercices suivants

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

## Opérations Mixtes (H)

## Complétez les exercices suivants

$$\begin{array}{r}
 -24 \\
 -\underline{6} \\
 \hline
 -30
 \end{array}
 \quad
 \begin{array}{r}
 +4 \\
 +\underline{4} \\
 \hline
 -15
 \end{array}
 \quad
 \begin{array}{r}
 -22 \\
 -\underline{4} \\
 \hline
 -17
 \end{array}
 \quad
 \begin{array}{r}
 -17 \\
 -\underline{3} \\
 \hline
 -12
 \end{array}
 \quad
 \begin{array}{r}
 -29 \\
 -\underline{18} \\
 \hline
 -36
 \end{array}
 \quad
 \begin{array}{r}
 +12 \\
 +\underline{5} \\
 \hline
 \end{array}$$

$$+ \frac{11}{11} \quad + \frac{4}{10} \quad + \frac{11}{14} \quad + \frac{4}{18} \quad - \frac{5}{2} \quad - \frac{21}{1} \quad + \frac{17}{7} \quad + \frac{12}{18} \quad + \frac{3}{16} \quad - \frac{22}{8}$$

$$+ \frac{8}{12} - \frac{5}{2} + \frac{5}{7} + \frac{14}{15} - \frac{31}{11} + \frac{6}{2} - \frac{16}{8} + \frac{15}{17} - \frac{26}{19} + \frac{15}{19}$$

$$-\frac{18}{6} - \frac{32}{17} + \frac{7}{15} + \frac{19}{19} + \frac{17}{19} + \frac{9}{2} - \frac{23}{14} + \frac{11}{16} + \frac{7}{9} - \frac{22}{12}$$

$$- \begin{array}{r} 15 \\ - 12 \end{array} \quad - \begin{array}{r} 36 \\ - 19 \end{array} \quad - \begin{array}{r} 14 \\ - 11 \end{array} \quad + \begin{array}{r} 19 \\ 1 \end{array} \quad - \begin{array}{r} 5 \\ 3 \end{array} \quad + \begin{array}{r} 12 \\ 19 \end{array} \quad - \begin{array}{r} 11 \\ 5 \end{array} \quad + \begin{array}{r} 13 \\ 10 \end{array} \quad + \begin{array}{r} 2 \\ 15 \end{array} \quad - \begin{array}{r} 19 \\ 7 \end{array}$$

$$+ \begin{matrix} 18 \\ 13 \end{matrix} \quad + \begin{matrix} 13 \\ 6 \end{matrix} \quad - \begin{matrix} 4 \\ 2 \end{matrix} \quad + \begin{matrix} 4 \\ 16 \end{matrix} \quad - \begin{matrix} 21 \\ 4 \end{matrix} \quad - \begin{matrix} 13 \\ 11 \end{matrix} \quad + \begin{matrix} 10 \\ 8 \end{matrix} \quad - \begin{matrix} 10 \\ 9 \end{matrix} \quad - \begin{matrix} 26 \\ 18 \end{matrix} \quad - \begin{matrix} 31 \\ 19 \end{matrix}$$

$$+ \begin{array}{r} 7 \\ 1 \end{array} \quad + \begin{array}{r} 10 \\ 15 \end{array} \quad - \begin{array}{r} 30 \\ 19 \end{array} \quad + \begin{array}{r} 17 \\ 9 \end{array} \quad + \begin{array}{r} 17 \\ 10 \end{array} \quad - \begin{array}{r} 18 \\ 10 \end{array} \quad - \begin{array}{r} 24 \\ 17 \end{array} \quad + \begin{array}{r} 16 \\ 17 \end{array} \quad + \begin{array}{r} 2 \\ 14 \end{array} \quad - \begin{array}{r} 24 \\ 7 \end{array}$$

$$+ \frac{13}{15} + \frac{9}{11} - \frac{19}{17} + \frac{13}{12} - \frac{29}{10} = \frac{33}{16} + \frac{10}{19} - \frac{19}{15} + \frac{15}{18} - \frac{33}{13}$$

$$= \frac{21}{1} + \frac{13}{2} + \frac{8}{11} + \frac{20}{16} - \frac{27}{10} - \frac{20}{11} - \frac{30}{13} - \frac{28}{20} - \frac{27}{13} + \frac{15}{7}$$

$$= \frac{11}{9} - \frac{27}{10} + \frac{7}{13} + \frac{16}{10} - \frac{18}{7} + \frac{18}{12} + \frac{5}{11} + \frac{1}{3} + \frac{10}{13} + \frac{5}{10}$$

# Opérations Mixtes Solutions (H)

Complétez les exercices suivants

$$\begin{array}{r}
 - & 24 & 30 & 4 & 28 & 22 & 17 & 17 & 29 & 36 & 12 \\
 - & 6 & - 20 & + 4 & - 15 & - 4 & - 6 & - 3 & - 12 & - 18 & + 5 \\
 \hline
 18 & 10 & 8 & 13 & 18 & 11 & 14 & 17 & 18 & 18 & 17
 \end{array}$$
  

$$\begin{array}{r}
 + & 11 & 4 & 11 & 4 & 5 & 21 & 17 & 12 & 3 & 22 \\
 + & 11 & + 10 & + 14 & + 18 & - 2 & - 1 & + 7 & + 18 & + 16 & - 8 \\
 \hline
 22 & 14 & 25 & 22 & 3 & 20 & 24 & 30 & 19 & 19 & 14
 \end{array}$$
  

$$\begin{array}{r}
 + & 8 & 5 & 5 & 14 & 31 & 6 & 16 & 15 & 26 & 15 \\
 + & 12 & - 2 & + 7 & + 15 & - 11 & + 2 & - 8 & + 17 & - 19 & + 19 \\
 \hline
 20 & 3 & 12 & 29 & 20 & 8 & 8 & 32 & 7 & 34
 \end{array}$$
  

$$\begin{array}{r}
 - & 18 & 32 & 7 & 19 & 17 & 9 & 23 & 11 & 7 & 22 \\
 - & 6 & - 17 & + 15 & + 19 & + 19 & + 2 & - 14 & + 16 & + 9 & - 12 \\
 \hline
 12 & 15 & 22 & 38 & 36 & 11 & 9 & 27 & 16 & 10
 \end{array}$$
  

$$\begin{array}{r}
 - & 15 & 36 & 14 & 19 & 5 & 12 & 11 & 13 & 2 & 19 \\
 - & 12 & - 19 & - 11 & + 1 & - 3 & + 19 & - 5 & + 10 & + 15 & - 7 \\
 \hline
 3 & 17 & 3 & 20 & 2 & 31 & 6 & 23 & 17 & 12
 \end{array}$$
  

$$\begin{array}{r}
 + & 18 & 13 & 4 & 4 & 21 & 13 & 10 & 10 & 26 & 31 \\
 + & 13 & + 6 & - 2 & + 16 & - 4 & - 11 & + 8 & - 9 & - 18 & - 19 \\
 \hline
 31 & 19 & 2 & 20 & 17 & 2 & 18 & 1 & 8 & 12
 \end{array}$$
  

$$\begin{array}{r}
 + & 7 & 10 & 30 & 17 & 17 & 18 & 24 & 16 & 2 & 24 \\
 + & 1 & + 15 & - 19 & + 9 & + 10 & - 10 & - 17 & + 17 & + 14 & - 7 \\
 \hline
 8 & 25 & 11 & 26 & 27 & 8 & 7 & 33 & 16 & 17
 \end{array}$$
  

$$\begin{array}{r}
 + & 13 & 9 & 19 & 13 & 29 & 33 & 10 & 19 & 15 & 33 \\
 + & 15 & + 11 & - 17 & + 12 & - 10 & - 16 & + 19 & - 15 & + 18 & - 13 \\
 \hline
 28 & 20 & 2 & 25 & 19 & 17 & 29 & 4 & 33 & 20
 \end{array}$$
  

$$\begin{array}{r}
 - & 21 & 13 & 8 & 20 & 27 & 20 & 30 & 28 & 27 & 15 \\
 - & 1 & + 2 & + 11 & + 16 & - 10 & - 11 & - 13 & - 20 & - 13 & + 7 \\
 \hline
 20 & 15 & 19 & 36 & 17 & 9 & 17 & 8 & 14 & 22
 \end{array}$$
  

$$\begin{array}{r}
 - & 11 & 27 & 7 & 16 & 18 & 18 & 5 & 1 & 10 & 5 \\
 - & 9 & - 10 & + 13 & + 10 & - 7 & + 12 & + 11 & + 3 & + 13 & + 10 \\
 \hline
 2 & 17 & 20 & 26 & 11 & 30 & 16 & 4 & 23 & 15
 \end{array}$$

# Opérations Mixtes (I)

## Complétez les exercices suivants

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

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

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

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

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

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

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

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

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

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

# Opérations Mixtes Solutions (I)

Complétez les exercices suivants

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

# Opérations Mixtes (J)

## Complétez les exercices suivants

$$\begin{array}{r}
 -\frac{10}{5} & +\frac{12}{16} & -\frac{18}{3} & +\frac{19}{20} & +\frac{18}{13} & +\frac{3}{17} & -\frac{36}{16} & +\frac{20}{18} & +\frac{4}{13} & +\frac{2}{13}
 \end{array}$$

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

$$\begin{array}{r}
 + \frac{6}{16} \quad + \frac{16}{20} \quad + \frac{9}{18} \quad + \frac{18}{17} \quad + \frac{6}{8} \quad + \frac{15}{14} \quad - \frac{21}{9} \quad + \frac{11}{16} \quad + \frac{16}{10} \quad + \frac{3}{12}
 \end{array}$$

$$\begin{array}{r}
 + 12 & - 18 & - 22 & - 32 & - 7 & + 15 & - 31 & + 9 & + 19 & + 18 \\
 + 19 & - 15 & - 5 & - 20 & - 2 & + 20 & - 16 & + 18 & + 16 & + 17
 \end{array}$$

$$-\frac{8}{5} - \frac{8}{2} + \frac{16}{16} - \frac{24}{6} + \frac{16}{1} + \frac{15}{9} + \frac{19}{13} - \frac{31}{16} - \frac{29}{16} - \frac{20}{16}$$

$$-\frac{27}{10} - \frac{27}{14} + \frac{9}{7} - \frac{13}{5} + \frac{3}{4} + \frac{16}{6} - \frac{16}{15} - \frac{8}{1} + \frac{5}{15} - \frac{6}{1}$$

$$+ \begin{matrix} 14 \\ 4 \end{matrix} + \begin{matrix} 7 \\ 1 \end{matrix} + \begin{matrix} 9 \\ 13 \end{matrix} + \begin{matrix} 17 \\ 10 \end{matrix} + \begin{matrix} 11 \\ 7 \end{matrix} - \begin{matrix} 23 \\ 12 \end{matrix} + \begin{matrix} 2 \\ 13 \end{matrix} + \begin{matrix} 11 \\ 8 \end{matrix} - \begin{matrix} 19 \\ 5 \end{matrix} - \begin{matrix} 24 \\ 17 \end{matrix}$$

$$+ \begin{array}{r} 1 \\ 9 \end{array} - \begin{array}{r} 16 \\ 12 \end{array} + \begin{array}{r} 10 \\ 10 \end{array} + \begin{array}{r} 5 \\ 15 \end{array} + \begin{array}{r} 20 \\ 18 \end{array} + \begin{array}{r} 14 \\ 10 \end{array} - \begin{array}{r} 9 \\ 5 \end{array} - \begin{array}{r} 8 \\ 1 \end{array} - \begin{array}{r} 22 \\ 2 \end{array} + \begin{array}{r} 10 \\ 14 \end{array}$$

$$-\frac{10}{2} + \frac{20}{2} - \frac{13}{5} - \frac{35}{16} + \frac{16}{18} + \frac{3}{6} + \frac{16}{4} + \frac{17}{4} + \frac{6}{2} + \frac{1}{1}$$

$$= \frac{27}{18} + \frac{13}{20} = \frac{17}{4} + \frac{11}{17} = \frac{21}{14} + \frac{5}{15} = \frac{1}{20} + \frac{30}{18} = \frac{4}{10} + \frac{14}{7}$$

# Opérations Mixtes Solutions (J)

Complétez les exercices suivants

$$\begin{array}{r} 10 \\ - 5 \\ \hline 5 \end{array} \quad \begin{array}{r} 12 \\ + 16 \\ \hline 28 \end{array} \quad \begin{array}{r} 18 \\ - 3 \\ \hline 15 \end{array} \quad \begin{array}{r} 19 \\ + 20 \\ \hline 39 \end{array} \quad \begin{array}{r} 18 \\ + 13 \\ \hline 31 \end{array} \quad \begin{array}{r} 3 \\ + 17 \\ \hline 20 \end{array} \quad \begin{array}{r} 36 \\ - 16 \\ \hline 20 \end{array} \quad \begin{array}{r} 20 \\ + 18 \\ \hline 38 \end{array} \quad \begin{array}{r} 4 \\ + 13 \\ \hline 17 \end{array} \quad \begin{array}{r} 2 \\ + 13 \\ \hline 15 \end{array}$$
$$\begin{array}{r} 18 \\ - 14 \\ \hline 4 \end{array} \quad \begin{array}{r} 9 \\ - 6 \\ \hline 3 \end{array} \quad \begin{array}{r} 13 \\ - 7 \\ \hline 6 \end{array} \quad \begin{array}{r} 2 \\ + 10 \\ \hline 12 \end{array} \quad \begin{array}{r} 10 \\ - 4 \\ \hline 6 \end{array} \quad \begin{array}{r} 8 \\ + 10 \\ \hline 18 \end{array} \quad \begin{array}{r} 4 \\ - 2 \\ \hline 2 \end{array} \quad \begin{array}{r} 6 \\ + 9 \\ \hline 15 \end{array} \quad \begin{array}{r} 17 \\ + 14 \\ \hline 31 \end{array} \quad \begin{array}{r} 14 \\ - 7 \\ \hline 7 \end{array}$$
$$\begin{array}{r} 6 \\ + 16 \\ \hline 22 \end{array} \quad \begin{array}{r} 16 \\ + 20 \\ \hline 36 \end{array} \quad \begin{array}{r} 9 \\ + 18 \\ \hline 27 \end{array} \quad \begin{array}{r} 18 \\ + 17 \\ \hline 35 \end{array} \quad \begin{array}{r} 6 \\ + 8 \\ \hline 14 \end{array} \quad \begin{array}{r} 15 \\ + 14 \\ \hline 29 \end{array} \quad \begin{array}{r} 21 \\ - 9 \\ \hline 12 \end{array} \quad \begin{array}{r} 11 \\ + 16 \\ \hline 27 \end{array} \quad \begin{array}{r} 16 \\ + 10 \\ \hline 26 \end{array} \quad \begin{array}{r} 3 \\ + 12 \\ \hline 15 \end{array}$$
$$\begin{array}{r} 12 \\ + 19 \\ \hline 31 \end{array} \quad \begin{array}{r} 18 \\ - 15 \\ \hline 3 \end{array} \quad \begin{array}{r} 22 \\ - 5 \\ \hline 17 \end{array} \quad \begin{array}{r} 32 \\ - 20 \\ \hline 12 \end{array} \quad \begin{array}{r} 7 \\ - 2 \\ \hline 5 \end{array} \quad \begin{array}{r} 15 \\ + 20 \\ \hline 35 \end{array} \quad \begin{array}{r} 31 \\ - 16 \\ \hline 15 \end{array} \quad \begin{array}{r} 9 \\ + 18 \\ \hline 27 \end{array} \quad \begin{array}{r} 19 \\ + 16 \\ \hline 35 \end{array} \quad \begin{array}{r} 18 \\ + 17 \\ \hline 35 \end{array}$$
$$\begin{array}{r} 8 \\ - 5 \\ \hline 3 \end{array} \quad \begin{array}{r} 8 \\ - 2 \\ \hline 6 \end{array} \quad \begin{array}{r} 16 \\ + 16 \\ \hline 32 \end{array} \quad \begin{array}{r} 24 \\ - 6 \\ \hline 18 \end{array} \quad \begin{array}{r} 16 \\ + 1 \\ \hline 17 \end{array} \quad \begin{array}{r} 15 \\ + 9 \\ \hline 24 \end{array} \quad \begin{array}{r} 19 \\ + 13 \\ \hline 32 \end{array} \quad \begin{array}{r} 31 \\ - 16 \\ \hline 15 \end{array} \quad \begin{array}{r} 29 \\ - 16 \\ \hline 13 \end{array} \quad \begin{array}{r} 20 \\ - 16 \\ \hline 4 \end{array}$$
$$\begin{array}{r} 27 \\ - 10 \\ \hline 17 \end{array} \quad \begin{array}{r} 27 \\ - 14 \\ \hline 13 \end{array} \quad \begin{array}{r} 9 \\ + 7 \\ \hline 16 \end{array} \quad \begin{array}{r} 13 \\ - 5 \\ \hline 8 \end{array} \quad \begin{array}{r} 3 \\ + 4 \\ \hline 7 \end{array} \quad \begin{array}{r} 16 \\ + 6 \\ \hline 22 \end{array} \quad \begin{array}{r} 16 \\ - 15 \\ \hline 1 \end{array} \quad \begin{array}{r} 8 \\ - 1 \\ \hline 7 \end{array} \quad \begin{array}{r} 5 \\ + 15 \\ \hline 20 \end{array} \quad \begin{array}{r} 6 \\ - 1 \\ \hline 5 \end{array}$$
$$\begin{array}{r} 14 \\ + 4 \\ \hline 18 \end{array} \quad \begin{array}{r} 7 \\ + 1 \\ \hline 8 \end{array} \quad \begin{array}{r} 9 \\ + 13 \\ \hline 22 \end{array} \quad \begin{array}{r} 17 \\ + 10 \\ \hline 27 \end{array} \quad \begin{array}{r} 11 \\ + 7 \\ \hline 18 \end{array} \quad \begin{array}{r} 23 \\ - 12 \\ \hline 11 \end{array} \quad \begin{array}{r} 2 \\ + 13 \\ \hline 15 \end{array} \quad \begin{array}{r} 11 \\ + 8 \\ \hline 19 \end{array} \quad \begin{array}{r} 19 \\ - 5 \\ \hline 14 \end{array} \quad \begin{array}{r} 24 \\ - 7 \\ \hline 7 \end{array}$$
$$\begin{array}{r} 1 \\ + 9 \\ \hline 10 \end{array} \quad \begin{array}{r} 16 \\ - 12 \\ \hline 4 \end{array} \quad \begin{array}{r} 10 \\ + 10 \\ \hline 20 \end{array} \quad \begin{array}{r} 5 \\ + 15 \\ \hline 20 \end{array} \quad \begin{array}{r} 20 \\ + 18 \\ \hline 38 \end{array} \quad \begin{array}{r} 14 \\ + 10 \\ \hline 24 \end{array} \quad \begin{array}{r} 9 \\ - 5 \\ \hline 4 \end{array} \quad \begin{array}{r} 8 \\ - 1 \\ \hline 7 \end{array} \quad \begin{array}{r} 22 \\ - 2 \\ \hline 20 \end{array} \quad \begin{array}{r} 10 \\ + 14 \\ \hline 24 \end{array}$$
$$\begin{array}{r} 10 \\ - 2 \\ \hline 8 \end{array} \quad \begin{array}{r} 20 \\ + 2 \\ \hline 22 \end{array} \quad \begin{array}{r} 13 \\ - 5 \\ \hline 8 \end{array} \quad \begin{array}{r} 35 \\ - 16 \\ \hline 19 \end{array} \quad \begin{array}{r} 16 \\ + 18 \\ \hline 34 \end{array} \quad \begin{array}{r} 3 \\ + 6 \\ \hline 9 \end{array} \quad \begin{array}{r} 16 \\ + 4 \\ \hline 20 \end{array} \quad \begin{array}{r} 17 \\ + 4 \\ \hline 21 \end{array} \quad \begin{array}{r} 6 \\ + 2 \\ \hline 8 \end{array} \quad \begin{array}{r} 1 \\ + 1 \\ \hline 2 \end{array}$$
$$\begin{array}{r} 27 \\ - 18 \\ \hline 9 \end{array} \quad \begin{array}{r} 13 \\ + 20 \\ \hline 33 \end{array} \quad \begin{array}{r} 17 \\ - 4 \\ \hline 13 \end{array} \quad \begin{array}{r} 11 \\ + 17 \\ \hline 28 \end{array} \quad \begin{array}{r} 21 \\ - 14 \\ \hline 7 \end{array} \quad \begin{array}{r} 5 \\ + 15 \\ \hline 20 \end{array} \quad \begin{array}{r} 1 \\ + 20 \\ \hline 21 \end{array} \quad \begin{array}{r} 30 \\ - 18 \\ \hline 12 \end{array} \quad \begin{array}{r} 4 \\ + 10 \\ \hline 14 \end{array} \quad \begin{array}{r} 14 \\ + 7 \\ \hline 21 \end{array}$$