

Calculs avec ou sans fraction

Calcule les expressions suivantes :

Exercice 1

$$\begin{aligned} A &= (+16) - (+13) & F &= 4 + (-11) + (+9) + (-16) - (-17) \\ B &= 15 - (-17) & G &= (+16) + (-10) - (+3) - (+6) - (-5) \\ C &= (+12) - (-5) & H &= - (+11) - (-5) - (+6) + (-7) + (+8) \\ D &= -13 - (+7) & I &= (-25) + 8 + 25 + (-50) + 79 \\ E &= (-15) + (-26) - (-8) & J &= -7 - (-17) - 43 - (-56) \end{aligned}$$

Exercice 2

$$\begin{aligned} A &= -1,2 + 3,7 - 2,4 - 3,7 & B &= -23 + 13,2 - 23 + 4,8 \\ C &= -11 + 35 + 7 + (-15) + 4 & D &= 13 + (-8) + (-13) + 9 + (-2) \\ E &= -4,75 + 51,3 + 5 + 0,75 + (-1,3) & F &= 82,7 + (-4,9) + (-2,7) + 4 \\ G &= -38,1 + 4,25 + 38,1 - 3 - 1,25 & H &= -7 + 78,9 - 2,65 - 5,9 + 5,65 - 11 \end{aligned}$$

Exercice 3

$$\begin{aligned} A &= -1,5 - [2 + (-5) - (-2 + 3,5)] \times 2 \\ B &= 2 \times 2,1 - [4 \times 2 - (-5) + 5 \times 4,1] \\ C &= [18,5 - (52 - 48,8 \times 2)] + (13 - 6) \times 2,5 \\ D &= [21,5 + 14 \times 4] \times [12,5 + 83,5] - 24 \times [25 \times 3 - 65] \\ E &= 121,3 - (2,1 : 0,7) + [(0,42 \times 7) : 21] \times (65,3 - 17) \end{aligned}$$

Exercice 4

$$\begin{aligned} A &= \frac{5}{3} - \frac{7}{3} & B &= \frac{14}{5} + \frac{6}{5} \\ C &= \frac{5}{3} \times \frac{-2}{7} & D &= \frac{-9}{11} \times \frac{5}{6} \\ E &= \frac{15}{14} \times \frac{2}{21} & F &= \frac{12}{55} \times \frac{77}{18} \\ G &= \frac{1}{3} \div \frac{15}{2} & H &= \frac{7}{12} \div \frac{11}{15} \times \frac{3}{14} \\ I &= \frac{1}{3} \times \frac{15}{2} - \frac{7}{5} & J &= \frac{7}{3} - \frac{5}{4} \times \frac{7}{3} + \frac{9}{5} \div \frac{4}{15} \end{aligned}$$

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Exercice 1

$$\begin{aligned} A &= (+16) - (+13) & F &= 4 + (-11) + (+9) + (-16) - (-17) \\ B &= 15 - (-17) & G &= (+16) + (-10) - (+3) - (+6) - (-5) \\ C &= (+12) - (-5) & H &= - (+11) - (-5) - (+6) + (-7) + (+8) \\ D &= -13 - (+7) & I &= (-25) + 8 + 25 + (-50) + 79 \\ E &= (-15) + (-26) - (-8) & J &= -7 - (-17) - 43 - (-56) \end{aligned}$$

Exercice 2

$$\begin{aligned} A &= -1,2 + 3,7 - 2,4 - 3,7 & B &= -23 + 13,2 - 23 + 4,8 \\ C &= -11 + 35 + 7 + (-15) + 4 & D &= 13 + (-8) + (-13) + 9 + (-2) \\ E &= -4,75 + 51,3 + 5 + 0,75 + (-1,3) & F &= 82,7 + (-4,9) + (-2,7) + 4 \\ G &= -38,1 + 4,25 + 38,1 - 3 - 1,25 & H &= -7 + 78,9 - 2,65 - 5,9 + 5,65 - 11 \end{aligned}$$

Exercice 3

$$\begin{aligned} A &= -1,5 - [2 + (-5) - (-2 + 3,5)] \times 2 \\ B &= 2 \times 2,1 - [4 \times 2 - (-5) + 5 \times 4,1] \\ C &= [18,5 - (52 - 48,8 \times 2)] + (13 - 6) \times 2,5 \\ D &= [21,5 + 14 \times 4] \times [12,5 + 83,5] - 24 \times [25 \times 3 - 65] \\ E &= 121,3 - (2,1 : 0,7) + [(0,42 \times 7) : 21] \times (65,3 - 17) \end{aligned}$$

Exercice 4

$$\begin{aligned} A &= \frac{5}{3} - \frac{7}{3} & B &= \frac{14}{5} + \frac{6}{5} \\ C &= \frac{5}{3} \times \frac{-2}{7} & D &= \frac{-9}{11} \times \frac{5}{6} \\ E &= \frac{15}{14} \times \frac{2}{21} & F &= \frac{12}{55} \times \frac{77}{18} \\ G &= \frac{1}{3} \div \frac{15}{2} & H &= \frac{7}{12} \div \frac{11}{15} \times \frac{3}{14} \\ I &= \frac{1}{3} \times \frac{15}{2} - \frac{7}{5} & J &= \frac{7}{3} - \frac{5}{4} \times \frac{7}{3} + \frac{9}{5} \div \frac{4}{15} \end{aligned}$$

Calculs avec ou sans fraction

Exercice 1

$$\begin{aligned} A &= (+16) - (+13) \\ &= 16 - 13 \\ &= 3 \end{aligned}$$

$$\begin{aligned} B &= 15 - (-17) \\ &= 15 + 17 \\ &= 32 \end{aligned}$$

$$\begin{aligned} C &= (+12) - (-5) \\ &= 12 + 5 \\ &= 17 \end{aligned}$$

$$\begin{aligned} D &= -13 - (+7) \\ &= -13 - 7 \\ &= -20 \end{aligned}$$

$$\begin{aligned} E &= (-15) + (-26) - (-8) \\ &= -15 - 26 + 8 \\ &= -41 + 8 \\ &= -33 \end{aligned}$$

$$\begin{aligned} F &= 4 + (-11) + (+9) + (-16) - (-17) \\ &= 4 - 11 + 9 - 16 + 17 \\ &= 4 + 9 + 17 - 11 - 16 \\ &= 30 - 27 = 3 \end{aligned}$$

$$\begin{aligned} G &= (+16) + (-10) - (+3) - (+6) - (-5) \\ &= 16 - 10 - 3 - 6 + 5 \\ &= 16 + 5 - 10 - 3 - 6 \\ &= 21 - 19 = 2 \end{aligned}$$

$$\begin{aligned} H &= - (+11) - (-5) - (+6) + (-7) + (+8) \\ &= -11 + 5 - 6 - 7 + 8 \\ &= -11 - 6 - 7 + 5 + 8 \\ &= -24 + 13 = -11 \end{aligned}$$

$$\begin{aligned} I &= (-25) + 8 + 25 + (-50) + 79 \\ &= -25 + 8 + 25 - 50 + 79 \\ &= -50 + 79 + 8 \\ &= -50 + 87 = 37 \end{aligned}$$

$$\begin{aligned} J &= -7 - (-17) - 43 - (-56) \\ &= -7 + 17 - 43 + 56 \\ &= -7 - 43 + 17 + 56 \\ &= -50 + 73 = 23 \end{aligned}$$

Exercice 2

$$\begin{aligned} A &= -1,2 + 3,7 - 2,4 - 3,7 \\ &= -1,2 - 2,4 = -3,6 \end{aligned}$$

$$\begin{aligned} C &= -11 + 35 + 7 + (-15) + 4 \\ &= -11 - 15 + 35 + 7 + 4 \\ &= 20 \end{aligned}$$

$$\begin{aligned} B &= -23 + 13,2 - 23 + 4,8 \\ &= -23 - 23 + 13,2 + 4,8 \\ &= -46 + 18 = -28 \end{aligned}$$

$$\begin{aligned} D &= 13 + (-8) + (-13) + 9 + (-2) \\ &= 9 - 8 - 2 \\ &= -1 \end{aligned}$$

$$\begin{aligned} E &= -4,75 + 51,3 + 5 + 0,75 + (-1,3) \\ &= -4 + 50 + 5 \\ &= 51 \end{aligned}$$

$$\begin{aligned} G &= -38,1 + 4,25 + 38,1 - 3 - 1,25 \\ &= 4,25 - 4,25 \\ &= 0 \end{aligned}$$

$$\begin{aligned} F &= 82,7 + (-4,9) + (-2,7) + 4 \\ &= 80 - 0,9 \\ &= 79,1 \\ H &= -7 + 78,9 - 2,65 - 5,9 + 5,65 - 11 \\ &= -7 + 73 + 3 - 11 \\ &= -18 + 76 = 58 \end{aligned}$$

Exercice 3

$$\begin{aligned} A &= -1,5 - [2 + (-5) - (-2 + 3,5)] \times 2 \\ &= -1,5 - [2 - 5 - (1,5)] \times 2 \\ &= -1,5 - (-4,5) \times 2 = -1,5 + 9 = 7,5 \end{aligned}$$

$$\begin{aligned} B &= 2 \times 2,1 - [4 \times 2 - (-5) + 5 \times 4,1] \\ &= 4,2 - (8 + 5 + 20,5) = 4,2 - 33,5 = -29,3 \end{aligned}$$

$$\begin{aligned} C &= [18,5 - (52 - 48,8 \times 2)] + (13 - 6) \times 2,5 \\ &= [18,5 - (52 - 97,6)] + 7 \times 2,5 \\ &= [18,5 - (-45,6)] + 17,5 \\ &= [18,5 + 45,6] + 17,5 = 64,1 + 17,5 = 81,6 \end{aligned}$$

$$\begin{aligned} D &= [21,5 + 14 \times 4] \times [12,5 + 83,5] - 24 \times [25 \times 3 - 65] \\ &= [21,5 + 56] \times 96 - 24 \times [75 - 65] \\ &= 77,5 \times 96 - 24 \times 10 = 7440 - 240 = 7200 \end{aligned}$$

$$\begin{aligned} E &= 121,3 - (2,1 : 0,7) + [(0,42 \times 7) : 21] \times (65,3 - 17) \\ &= 121,3 - 3 + [2,94 : 21] \times 48,3 \\ &= 121,3 - 3 + 0,14 \times 48,3 = 121,3 - 3 + 6,762 \\ &= 128,062 - 3 = 125,062 \end{aligned}$$

Exercice 4

$$\begin{aligned} A &= \frac{5}{3} - \frac{7}{3} = -\frac{2}{3} \\ C &= \frac{5}{3} \times \frac{-2}{7} = -\frac{10}{21} \end{aligned}$$

$$\begin{aligned} B &= \frac{14}{15} + \frac{6}{5} = \frac{14}{15} + \frac{18}{15} = \frac{32}{15} \\ D &= \frac{-9}{11} \times \frac{5}{6} = \frac{-3 \times 3}{11} \times \frac{5}{3 \times 2} = \frac{-15}{22} \end{aligned}$$

$$E = \frac{15}{14} \times \frac{2}{21}$$

$$= \frac{3 \times 5 \times 2}{2 \times 7 \times 3 \times 7} = \frac{5}{49}$$

$$G = \frac{1}{3} \div \frac{15}{2}$$

$$= \frac{1}{3} \times \frac{2}{15} = \frac{2}{45}$$

$$I = \frac{1}{3} \times \frac{15}{2} - \frac{7}{5}$$

$$= \frac{3 \times 5}{3 \times 2} - \frac{7}{5} = \frac{5 \times 5}{5 \times 2} - \frac{7 \times 2}{5 \times 2}$$

$$= \frac{25}{10} - \frac{14}{10} = \frac{11}{10}$$

$$F = \frac{12}{55} \times \frac{77}{18}$$

$$= \frac{3 \times 2 \times 2 \times 7 \times 11}{5 \times 11 \times 3 \times 3 \times 2} = \frac{2 \times 7}{5 \times 3} = \frac{14}{15}$$

$$H = \frac{7}{12} \div \frac{11}{15} \times \frac{3}{14}$$

$$= \frac{7}{12} \times \frac{15}{11} \times \frac{3}{14} = \frac{7 \times 5 \times 3 \times 3}{2 \times 3 \times 2 \times 11 \times 2 \times 7}$$

$$= \frac{5 \times 3}{2 \times 2 \times 11 \times 2} = \frac{15}{88}$$

$$J = \frac{7}{3} - \frac{5}{4} \times \frac{7}{3} + \frac{9}{5} \div \frac{4}{15}$$

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

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

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

$$= \frac{140}{60} - \frac{175}{60} + \frac{405}{60}$$

$$= \frac{545}{60} - \frac{175}{60} = \frac{370}{60} = \frac{37}{6}$$