

Fractions et petits calculs

Effectuer les calculs

$$A = \frac{9}{4} + \frac{7}{2} - \frac{11}{8}$$

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

$$C = \frac{9}{25} \times \frac{35}{18} \times \frac{10}{7}$$

$$D = \frac{6}{28} \times \frac{14}{9} - \frac{1}{4}$$

$$E = \frac{15}{4} - 6 \times \frac{7}{24}$$

$$F = (2 - \frac{9}{4}) \times \frac{8}{7}$$

$$G = \frac{16}{3} \times \frac{35}{8} + \frac{8}{3} \times \frac{5}{8}$$

$$H = \frac{36}{25} : \frac{6}{15} - \frac{3}{2} \times \frac{4}{5}$$

$$I = (\frac{2}{3} + \frac{4}{5}) \times \frac{30}{7}$$

$$J = (3 - \frac{1}{4} + \frac{7}{8}) \times \frac{4}{5}$$

$$K = (2 + \frac{1}{4}) : (3 - \frac{1}{2})$$

$$L = \frac{7}{15} (\frac{5}{7} - \frac{5}{14})$$

$$M = (\frac{2}{5})^2 - \frac{3}{4} \times \frac{2}{5}$$

CORRECTION

$$\begin{aligned} A &= \frac{9}{4} + \frac{7}{2} - \frac{11}{8} \\ &= \frac{18}{8} + \frac{28}{8} - \frac{11}{8} \\ &= \frac{35}{8} \end{aligned}$$

$$\begin{aligned} B &= \frac{3}{2} - \frac{1}{5} + \frac{1}{10} \\ &= \frac{15}{10} - \frac{2}{10} + \frac{1}{10} \\ &= \frac{14}{10} \\ &= \frac{7}{5} \end{aligned}$$

$$\begin{aligned} C &= \frac{9}{25} \times \frac{35}{18} \times \frac{10}{7} \\ &= \frac{9 \times 7 \times 5 \times 5 \times 2}{5 \times 5 \times 9 \times 2 \times 7} \\ &= 1 \end{aligned}$$

$$\begin{aligned} D &= \frac{6}{28} \times \frac{14}{9} - \frac{1}{4} \\ &= \frac{3 \times 2 \times 7 \times 2}{7 \times 2 \times 2 \times 3 \times 3} - \frac{1}{4} \\ &= \frac{1}{3} - \frac{1}{4} \\ &= \frac{4}{12} - \frac{3}{12} \\ &= \frac{1}{12} \end{aligned}$$

$$\begin{aligned} E &= \frac{15}{4} - 6 \times \frac{7}{24} \\ &= \frac{15}{4} - \frac{6 \times 7}{6 \times 4} \\ &= \frac{15}{4} - \frac{7}{4} \\ &= \frac{8}{4} \\ &= 2 \end{aligned}$$

$$\begin{aligned} F &= (2 - \frac{9}{4}) \times \frac{8}{7} \\ &= (\frac{8}{4} - \frac{9}{4}) \times \frac{8}{7} \\ &= -\frac{1}{4} \times \frac{8}{7} \\ &= -\frac{4 \times 2}{4 \times 7} \\ &= -\frac{2}{7} \end{aligned}$$

$$\begin{aligned} G &= \frac{16}{3} \times \frac{35}{8} + \frac{8}{3} \times \frac{5}{8} \\ &= \frac{8 \times 2 \times 35}{3 \times 8} + \frac{8 \times 5}{8 \times 3} \\ &= \frac{70}{3} + \frac{5}{3} \\ &= \frac{75}{3} \\ &= 25 \end{aligned}$$

$$\begin{aligned} H &= \frac{36}{25} : \frac{6}{15} - \frac{3}{2} \times \frac{4}{5} \\ &= \frac{36}{25} \times \frac{15}{6} - \frac{3 \times 2 \times 2}{2 \times 5} \\ &= \frac{6 \times 6 \times 5 \times 3}{5 \times 5 \times 6} - \frac{6}{5} \\ &= \frac{18}{5} - \frac{6}{5} \\ &= \frac{12}{5} \end{aligned}$$

$$\begin{aligned} I &= (\frac{2}{3} + \frac{4}{5}) \times \frac{30}{7} \\ &= (\frac{10}{15} + \frac{12}{15}) \times \frac{30}{7} \\ &= \frac{22}{15} \times \frac{30}{7} \\ &= \frac{22 \times 15 \times 2}{15 \times 7} \\ &= \frac{44}{7} \end{aligned}$$

$$\begin{aligned} J &= (3 - \frac{1}{4} + \frac{7}{8}) \times \frac{4}{5} \\ &= (\frac{24}{8} - \frac{2}{8} + \frac{7}{8}) \times \frac{4}{5} \\ &= \frac{29}{8} \times \frac{4}{5} \\ &= \frac{29 \times 4}{4 \times 2 \times 5} \\ &= \frac{29}{10} \end{aligned}$$

$$\begin{aligned} K &= (2 + \frac{1}{4}) : (3 - \frac{1}{2}) \\ &= (\frac{8}{4} + \frac{1}{4}) : (\frac{6}{2} - \frac{1}{2}) \\ &= \frac{9}{4} : \frac{5}{2} \\ &= \frac{9}{4} \times \frac{2}{5} \\ &= \frac{9 \times 2}{2 \times 2 \times 5} \\ &= \frac{9}{10} \end{aligned}$$

$$\begin{aligned} L &= \frac{7}{15} (\frac{5}{7} - \frac{5}{14}) \\ &= \frac{7}{15} \times (\frac{10}{14} - \frac{5}{14}) \\ &= \frac{7}{15} \times \frac{5}{14} \\ &= \frac{7 \times 5}{5 \times 3 \times 7 \times 2} \\ &= \frac{1}{6} \end{aligned}$$

$$\begin{aligned} M &= (\frac{2}{5})^2 - \frac{3}{4} \times \frac{2}{5} \\ &= \frac{4}{25} - \frac{3 \times 2}{2 \times 2 \times 5} \\ &= \frac{4}{25} - \frac{3}{10} \\ &= \frac{8}{50} - \frac{15}{50} \\ &= -\frac{7}{50} \end{aligned}$$