

Savoir N. 5 : Opérations et priorités des fractions

Exercice 20 – Multiplications et divisions

$$A = \frac{3}{4} \times \frac{7}{5}$$

$$B = \frac{10}{7} \times 3$$

$$C = \frac{3}{4} \div \frac{6}{7}$$

$$D = \frac{2}{5} \div 7$$

$$I = \frac{\frac{3}{2}}{\frac{4}{5}}$$

$$K = \frac{\frac{4}{7}}{5}$$

$$E = \frac{3}{2} \times \frac{5}{2}$$

$$F = \frac{28}{15} \div \frac{4}{3}$$

$$G = 5 \times \frac{3}{8}$$

$$H = 6 \div \frac{4}{9}$$

Exercice 21 – Puissances

$$A = \left(\frac{2}{5}\right)^2$$

$$B = \left(-\frac{1}{3}\right)^2$$

$$C = \left(\frac{3}{2}\right)^4$$

$$D = \frac{3^4}{2}$$

$$E = \left(-\frac{5}{3}\right)^3$$

$$F = \left(\frac{-2}{7}\right)^3$$

Exercice 22 – Additions et soustractions

$$A = \frac{3}{4} + \frac{7}{5}$$

$$B = \frac{42}{7} - 6$$

$$C = 5 + \frac{6}{5}$$

$$D = \frac{5}{2} + \frac{7}{6}$$

$$E = \frac{9}{6} - \frac{7}{6}$$

$$F = \frac{1}{5} - \frac{1}{9}$$

$$G = \frac{2}{3} - \frac{6}{5}$$

$$H = 2 - \frac{7}{6}$$

$$I = -\frac{5}{4} + \frac{5}{3}$$

$$J = \frac{6}{11} - 3$$

$$K = \frac{3}{2} + \frac{7}{5} - \frac{41}{20}$$

Exercice 23 – Opérations mélangées

$$K = \frac{5}{11} \times \frac{2}{7}$$

$$M = \frac{2}{5} \div \frac{9}{14}$$

$$T = \frac{\frac{56}{11}}{\frac{1}{33}}$$

$$P = \frac{6}{5} \times 7$$

$$R = \frac{27}{-7} \div 6$$

$$U = \frac{\frac{15}{31}}{\frac{3}{2}}$$

$$L = \frac{5}{4} + \frac{1}{4}$$

$$N = 5 - \frac{3}{12}$$

$$Q = \frac{12}{3} - \frac{2}{7}$$

$$S = \frac{5}{4} + \frac{3}{10}$$

Exercice 24 – Priorités

Effectue les calculs suivants, en donnant les étapes intermédiaires, et le résultat sous sa forme irréductible.

$$I = \left(\frac{2}{3} - \frac{3}{2}\right) \times \left(1 + \frac{7}{6}\right)$$

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

$$K = \frac{4}{7} + \frac{2}{7} \times \frac{14}{18}$$

$$L = \frac{\frac{4}{5}}{\frac{9}{10}} - \frac{7}{4}$$

$$A = \frac{2}{5} - \frac{6}{5} \times \frac{4}{3}$$

$$B = \frac{7}{2} - \frac{5}{4} \div \frac{15}{7}$$

$$C = 2 \times \frac{7}{6} - \frac{20}{18}$$

$$D = \frac{\frac{3}{4} - \frac{4}{5}}{\frac{3}{2}}$$