

**EXERCICE 1.1**

Ecrire sous la forme d'une fraction irréductible :

$$\begin{array}{lll} A = \frac{8}{12} & B = \frac{1}{3} + \frac{1}{2} & C = \frac{2}{3} + \frac{5}{6} \\ D = \frac{2}{5} - 1 & E = \frac{5}{4} - \frac{7}{6} & F = \frac{1}{15} + \frac{1}{3} - \frac{3}{20} \end{array}$$

**EXERCICE 1.2**

Ecrire sous la forme d'une fraction, la plus simple possible :

$$\begin{array}{lll} A = \frac{1}{a} + \frac{1}{b} & B = \frac{3}{2a} + \frac{5}{b} & C = \frac{3}{2a} - \frac{1}{ab} \\ D = \frac{1}{2a} + \frac{1}{6a} + \frac{1}{15a} & E = \frac{1}{a} + \frac{1}{a^2} + \frac{1}{a^3} & F = \frac{2}{ab} + \frac{3}{a^2} + \frac{4}{b^2} \end{array}$$

**EXERCICE 1.3**

Ecrire sous la forme d'une fraction irréductible :

$$\begin{array}{lll} A = \frac{4}{3} \times \frac{7}{5} & B = \frac{2}{5} \times \frac{5}{9} & C = \frac{7}{8} \times \frac{6}{5} \\ D = \frac{-2}{5} \times \frac{3}{-7} \times \frac{-7}{2} & E = 7 \times \frac{1}{11} \times \frac{3}{14} & F = \frac{6}{35} \times \frac{14}{3} \times \frac{1}{2} \\ H = \frac{2^3}{5^2} \times \frac{3^5}{2^7} \times \frac{5^3}{3^3} & I = \frac{14^4 \times 6^3}{18^4 \times 49} & J = \frac{55^3 \times 26^2}{65^3 \times 44^2} \end{array}$$

**EXERCICE 1.4**

Ecrire sous la forme d'une fraction irréductible :

$$\begin{array}{lll} A = \frac{2}{3} \div \frac{5}{7} & B = \frac{1}{3} \div 5 & C = -4 \div \frac{-2}{13} \\ D = \frac{\frac{2}{3}}{\frac{5}{3}} & E = \frac{\frac{3}{7}}{\frac{2}{7}} & F = -\frac{\frac{-12}{49}}{\frac{-3}{-35}} \end{array}$$

**EXERCICE 1.5**

Ecrire sous la forme d'une fraction, la plus simple possible :

$$A = \frac{b^2}{a^5} \times \frac{a^7}{b^3} \quad B = \frac{b^2}{a^5} \div \frac{a^7}{b^3} \quad C = \frac{a^3}{b^2} \times \frac{3a^2}{b} \times \frac{b^7}{2a^4}$$

**EXERCICE 1.6**

Ecrire sous la forme d'une fraction irréductible :

$$\begin{array}{llll} A = \frac{2}{3} - \frac{4}{3} \times \frac{2}{5} & B = 1 + \frac{1}{\frac{1}{2}} & C = \frac{7}{3} \left( 2 - \frac{11}{4} \right) & D = \frac{1 + \frac{1}{7}}{1 + \frac{1}{3}} \\ E = \frac{-3}{5} \times \frac{5}{\frac{-6}{13}} & F = \frac{4}{\frac{2}{3} - \frac{5}{6}} & G = \frac{5}{7} + \left( \frac{3}{2} \right)^2 & H = \frac{\frac{1}{2} + \frac{1}{5}}{\frac{1}{3} - \frac{1}{4}} \\ & & & I = \frac{\frac{7}{-6} \times \frac{3}{-10}}{\frac{-14}{5} \times \frac{1}{-5}} \end{array}$$