EXERCICE 1.1

Ecrire sous la forme d'une fraction irréductible :

$$A = \frac{8}{12} \qquad\qquad B = \frac{1}{3} + \frac{1}{2} \qquad\qquad C = \frac{2}{3} + \frac{5}{6}$$

$$D = \frac{2}{5} - 1 \qquad\qquad E = \frac{5}{4} - \frac{7}{6} \qquad\qquad F = \frac{1}{15} + \frac{1}{3} - \frac{3}{20}$$

EXERCICE 1.2

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

$$A = \frac{1}{a} + \frac{1}{b} \qquad\qquad B = \frac{3}{2a} + \frac{5}{b} \qquad\qquad C = \frac{3}{2a} - \frac{1}{ab}$$

$$D = \frac{1}{2a} + \frac{1}{6a} + \frac{1}{15a} \qquad\qquad E = \frac{1}{a} + \frac{1}{a^2} + \frac{1}{a^3} \qquad\qquad F = \frac{2}{ab} + \frac{3}{a^2} + \frac{4}{b^2}$$

EXERCICE 1.3

Ecrire sous la forme d'une fraction irréductible :

$$A = \frac{4}{3} \times \frac{7}{5} \qquad\qquad B = \frac{2}{5} \times \frac{5}{9} \qquad\qquad C = \frac{7}{8} \times \frac{6}{5}$$

$$D = \frac{-2}{5} \times \frac{3}{-7} \times \frac{-7}{2} \qquad E = 7 \times \frac{1}{11} \times \frac{3}{14} \qquad F = \frac{6}{35} \times \frac{14}{3} \times \frac{1}{2} \qquad\Bigg|\qquad G = \frac{51}{26} \times \frac{49}{15} \times \frac{65}{119}$$

$$H = \frac{2^3}{5^2} \times \frac{3^5}{2^7} \times \frac{5^3}{3^3} \qquad\qquad I = \frac{14^4 \times 6^3}{18^4 \times 49} \qquad\qquad J = \frac{55^3 \times 26^2}{65^3 \times 44^2}$$

EXERCICE 1.4

Ecrire sous la forme d'une fraction irréductible :

$$A = \frac{2}{3} \div \frac{5}{7} \qquad\qquad B = \frac{1}{3} \div 5 \qquad\qquad C = -4 \div \frac{-2}{13}$$

$$D = \frac{\dfrac{2}{3}}{\dfrac{5}{3}} \qquad\qquad E = \frac{\dfrac{3}{7}}{\dfrac{2}{}} \qquad\qquad F = -\frac{\dfrac{-12}{49}}{\dfrac{-3}{-35}}$$

EXERCICE 1.5

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

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

EXERCICE 1.6

Ecrire sous la forme d'une fraction irréductible :

$$A = \frac{2}{3} - \frac{4}{3} \times \frac{2}{5} \qquad B = 1 + \frac{1}{\dfrac{1}{2}} \qquad C = \frac{7}{3}\left(2 - \frac{11}{4}\right) \qquad D = \frac{1 + \dfrac{1}{7}}{1 + \dfrac{1}{3}}$$

$$E = \frac{-3}{5} \times \frac{5}{\dfrac{-6}{13}} \qquad F = \frac{4}{\dfrac{2}{3} - \dfrac{5}{6}} \qquad G = \frac{5}{7} + \left(\frac{3}{2}\right)^2 \qquad H = \frac{\dfrac{1}{2} + \dfrac{1}{5}}{\dfrac{1}{3} - \dfrac{1}{4}} \qquad I = \frac{\dfrac{7}{-6} \times \dfrac{3}{-10}}{\dfrac{-14}{5} \times \dfrac{1}{-5}}$$