

**Exercice 1 :** Simplifier les fractions

$$\frac{32}{28}, \frac{64}{80}, \frac{15}{35}, \frac{49}{35}, \frac{14}{21}, \frac{8}{16}, \frac{120}{140}, \frac{12}{36}, \frac{3700}{1200}, \frac{48}{56}, \frac{81}{99}, \frac{77}{66}$$

**Exercice 2 :** Calculer en détaillant les étapes et donner les résultats sous forme de fractions simplifiées

$$A = \frac{7}{8} - \frac{-5}{3}$$

$$B = \frac{-8}{15} + \frac{-7}{6}$$

$$C = \frac{-5}{6} + \frac{9}{8} - \frac{5}{24}$$

$$D = \frac{7}{4} - \left( \frac{-1}{8} - \frac{3}{10} \right)$$

$$E = \frac{-10}{3} \times \frac{-5}{7}$$

$$F = \frac{18}{-5} \times \frac{20}{-16} \times \frac{-4}{-5}$$

$$G = \frac{-63}{25} \times \frac{40}{-81}$$

$$H = \frac{1}{5} - \frac{3}{5} \times \frac{1}{6} + \frac{1}{2}$$

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

$$J = \frac{51}{21} \div \frac{68}{7}$$

$$K = \frac{72}{35} \div \frac{54}{105}$$

$$L = \left( \frac{1}{5} - \frac{3}{10} \right) - \left( \frac{1}{6} - \frac{1}{2} \right)$$

$$M = \frac{2}{3} - \frac{1}{3} \times \frac{4}{5}$$

$$N = \frac{-2}{3} \times \left( \frac{1}{2} - \frac{1}{4} \right)$$

$$O = \left( \frac{-2}{7} + \frac{5}{42} \right) \times \left( 5 - \frac{3}{8} \right)$$

$$P = \left( \frac{1}{8} - \frac{7}{12} \right) \div \left( \frac{7}{6} + \frac{7}{16} \right)$$