

EXERCICES – FRACTIONS – 005

Exercice 1

Simplifie les fractions (ou les nombres en écriture fractionnaire) suivantes :

$$\frac{21}{14} =$$

$$\frac{24}{-22} =$$

$$\frac{-25}{55} =$$

$$\frac{45}{63} =$$

$$\frac{-24}{-30} =$$

$$\frac{36}{42} =$$

$$\frac{-15}{-18} =$$

$$\frac{25}{200} =$$

$$\frac{555}{333} =$$

$$\frac{39}{52} =$$

Exercice 2 Calculer

$$\frac{-2}{7} + \frac{9}{7} =$$

$$\frac{2}{-9} + \frac{-8}{9} =$$

$$\frac{-5}{16} + \frac{7}{4} =$$

$$\frac{9}{32} - \frac{-5}{-8} =$$

$$\frac{12}{-5} + \frac{11}{20} =$$

$$\frac{13}{64} + \frac{5}{8} =$$

$$\frac{-17}{-36} - \frac{-5}{-9} =$$

$$\frac{9}{40} + \frac{2}{5} =$$

Exercice 3 Calculer

$$\frac{18}{7} - \frac{11}{5} =$$

$$\frac{1}{5} - \frac{-11}{25} + \frac{21}{100} =$$

$$\frac{47}{54} - \frac{5}{9} - \frac{7}{18} =$$

$$\frac{37}{41} - \frac{12}{24} =$$

Exercice 4

Calculer et simplifier (il faut souvent mieux simplifier avant de calculer, quand c'est possible)

$$\frac{3}{7} \times \frac{9}{5} =$$

$$\frac{18}{7} \times \frac{4}{-9} =$$

$$\frac{-1}{10} \times \frac{35}{-3} =$$

$$\frac{5}{19} \div \frac{3}{8} =$$

$$\frac{-24}{-11} \div \frac{6}{-5} =$$

$$\frac{-36}{-5} \div \frac{18}{4} =$$

$$\frac{-11}{12} \times \frac{-25}{-(-14)} \times \frac{-8}{22} \times \frac{3}{5} =$$

$$\frac{-2}{-5} \times \frac{-10}{6} \times \frac{-9}{7} =$$

Exercice 5

Calculer, en suivant les priorités

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

$$\left| \frac{-6}{7} \times \frac{14}{24} + \frac{3}{-2} = \right.$$

$$-\frac{2}{5} + \frac{3}{10} - \frac{3}{4} \div 5 =$$

$$\left(\frac{-3}{7} \div \frac{5}{14} \right) \times \left(\frac{-3}{11} - \frac{1}{22} \right) =$$

$$\frac{11}{3} - \left[\frac{-5}{8} + \frac{3}{2} \times \frac{1}{8} \right] =$$

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

$$\left| \frac{\frac{2}{3} - \frac{-1}{5}}{\frac{1}{-2} \times \frac{-3}{2}} = \right.$$

$$\frac{\frac{2}{4 - \frac{2}{1 + \frac{1}{2}}}}{1} =$$