

Exercice 1 : (3 points)

Compléter le tableau suivant :

Nombre	4	$\frac{3}{7}$	$\frac{11}{5}$	$\frac{-8}{7}$	$\frac{1}{8}$	-4
Inverse	$\frac{1}{4}=0,25$	$\frac{7}{3}$	$\frac{5}{11}$	$\frac{7}{-8}$	8	-0,25

Exercice 2 : (4 points)Calculer et **simplifier au maximum**

$$A = \frac{4}{3} - \frac{5}{6} \quad B = \frac{1}{7} + \frac{4}{9} \quad C = \frac{2}{3} \times \frac{8}{7} \quad D = \frac{-7}{6} \times \frac{12}{5} \times \left(\frac{-15}{28} \right)$$

$$A = \frac{4 \times 6}{3 \times 6} - \frac{5 \times 3}{6 \times 3} \quad B = \frac{1 \times 9}{7 \times 9} + \frac{4 \times 7}{9 \times 7} \quad C = \frac{2 \times 8}{3 \times 7} \quad D = \frac{7 \times 12 \times 15}{6 \times 5 \times 28}$$

$$A = \frac{24}{18} - \frac{15}{18} \quad B = \frac{9}{63} + \frac{28}{63} \quad C = \frac{16}{21} \quad D = \frac{7 \times 6 \times 2 \times 5 \times 3}{6 \times 5 \times 7 \times 2 \times 2}$$

$$A = \frac{9}{18} \quad B = \frac{37}{63} \quad C = \quad D = \frac{3}{2}$$

$$A = \frac{1}{2}$$

Exercice 3 : (3 points)

Calculer et simplifier au maximum :

$$F = \frac{2}{7} : \frac{3}{8} \quad G = \frac{-15}{4} : \frac{-5}{4} \quad H = 5 : \frac{-10}{3}$$

$$F = \frac{2}{7} \times \frac{8}{3} \quad G = \frac{-15}{4} \times \frac{4}{-5} \quad H = 5 \times \frac{3}{-10}$$

$$F = \frac{16}{21} \quad G = \frac{5 \times 3 \times 4}{4 \times 5} \quad H = \frac{-5 \times 3}{10}$$

$$G = 3 \quad H = \frac{-5 \times 3}{5 \times 2}$$

$$H = \frac{-3}{2}$$