

Nom :  
Prénom :

Classe :

## **6N7 – Sujet Blanc**

Tous les résultats devront être simplifiés au maximum

### **Exercice 1 – Calculer**

Poser et effectuer les calculs suivants.

$$A = \frac{1}{4} + \frac{5}{4} = \frac{6}{4} = \frac{2 \times 3}{2 \times 2} = \boxed{\frac{3}{2}}$$

$$B = \frac{2}{5} + \frac{7}{5} = \boxed{\frac{9}{5}}$$

$$C = \frac{12}{5} - \frac{2}{5} = \frac{10}{5} = \boxed{2}$$

$$D = \frac{4}{3} + \frac{2}{9} = \frac{4 \times 3}{3 \times 3} + \frac{2}{9} = \frac{6+2}{9} = \boxed{\frac{8}{9}}$$

$$E = \frac{1}{2} + \frac{1}{5} = \frac{1 \times 5}{2 \times 5} + \frac{1 \times 2}{5 \times 2} = \frac{5+2}{10} = \boxed{\frac{7}{10}}$$

$$F = \frac{2}{5} + \frac{3}{7} = \frac{2 \times 7}{5 \times 7} + \frac{3 \times 5}{7 \times 5} = \frac{14+35}{35} = \frac{49}{35} = \boxed{\frac{7}{5}}$$

$$G = 5 + \frac{11}{4} = \frac{5 \times 4}{4} + \frac{11}{4} = \frac{20+11}{4} = \boxed{\frac{31}{4}}$$

### **Exercice 2 - Calculer**

Effectuer les calculs suivants :

$$A = \frac{2}{3} \times 9 = \frac{2 \times 9}{3} = \frac{2 \times 3 \times 3}{3} = \boxed{6}$$

$$B = \frac{3}{8} \times 48 = \frac{3 \times 48}{8} = \frac{3 \times 6 \times 8}{8} = \boxed{18}$$

$$C = 25 \times \frac{4}{5} = \frac{25 \times 4}{5} = \frac{5 \times 5 \times 4}{5} = \boxed{20}$$

$$D = \frac{1}{3} \times 6 = \frac{1 \times 6}{3} = \frac{1 \times 2 \times 3}{3} = \boxed{2}$$