

**Interrogation de Mathématiques – 25 minutes**

Effectuez les opérations suivantes et simplifiez les résultats :

$$A = \frac{-4}{3} + \frac{-5}{4} + 1$$

$$B = \frac{-7}{3} \times \frac{5}{-8} - \frac{1}{2}$$

$$C = \frac{4}{-5} \div \frac{24}{15} - \frac{1}{2} \times \frac{-1}{3}$$

$$D = \frac{\frac{-2}{7}}{\frac{5}{-14}} + 2$$

$$E = \frac{\frac{5}{6} + \frac{1}{2}}{\frac{2}{3} - \frac{3}{4}}$$

$$F = \frac{\frac{16}{3} \times \frac{9}{2}}{\frac{4}{5} + \frac{3}{10}}$$

**Interrogation de Mathématiques – CORRIGE – M. QUET**

$$A = \frac{-4}{3} + \frac{-5}{4} + 1$$

$$A = \frac{-4 \times 4}{3 \times 4} + \frac{-5 \times 3}{4 \times 3} + \frac{1 \times 12}{1 \times 12}$$

$$A = \frac{-16}{12} + \frac{-15}{12} + \frac{12}{12}$$

$$A = \frac{-16 - 15 + 12}{12}$$

$$A = \frac{-19}{12}$$

$$D = \frac{\frac{-2}{7}}{\frac{5}{-14}} + 2$$

$$D = \frac{-2}{7} \times \frac{-14}{5} + 2$$

$$D = \frac{-2 \times (-14)}{7 \times 5} + 2$$

$$D = \frac{2 \times 2 \times 7}{7 \times 5} + 2$$

$$D = \frac{2 \times 2}{5} + \frac{2 \times 5}{1 \times 5}$$

$$D = \frac{4}{5} + \frac{10}{5}$$

$$D = \frac{14}{5}$$

$$B = \frac{-7}{3} \times \frac{5}{-8} - \frac{1}{2}$$

$$B = \frac{-7 \times 5}{3 \times (-8)} - \frac{1}{2}$$

$$B = \frac{-35}{-24} - \frac{1}{2}$$

$$B = \frac{35}{24} - \frac{1 \times 12}{2 \times 12}$$

$$B = \frac{35}{24} - \frac{12}{24}$$

$$B = \frac{35 - 12}{24}$$

$$B = \frac{23}{24}$$

$$E = \frac{\frac{5}{6} + \frac{1}{2}}{\frac{2}{3} - \frac{3}{4}}$$

$$E = \frac{\frac{5}{6} + \frac{1 \times 3}{2 \times 3}}{\frac{2 \times 4}{3 \times 4} - \frac{3 \times 3}{4 \times 3}}$$

$$E = \frac{\frac{5}{6} + \frac{3}{6}}{\frac{8}{12} - \frac{9}{12}}$$

$$E = \frac{\frac{8}{-1}}{\frac{8}{12}}$$

$$E = \frac{8}{6} \times \frac{12}{-1}$$

$$E = \frac{8 \times 2 \times 6}{6 \times (-1)}$$

$$E = \frac{8 \times 2}{-1} = -16$$

$$C = \frac{4}{-5} \div \frac{24}{15} - \frac{1}{2} \times \frac{-1}{3}$$

$$C = \frac{4}{-5} \times \frac{15}{24} - \frac{1 \times (-1)}{2 \times 3}$$

$$C = \frac{4}{-1 \times 5} \times \frac{3 \times 5}{6 \times 4} - \frac{-1}{6}$$

$$C = \frac{4 \times 3 \times 5}{-1 \times 5 \times 6 \times 4} + \frac{1}{6}$$

$$C = \frac{3}{-1 \times 6} + \frac{1}{6}$$

$$C = \frac{-3}{6} + \frac{1}{6}$$

$$C = \frac{-2}{6}$$

$$C = \frac{-1}{3}$$

$$F = \frac{\frac{16}{3} \times \frac{9}{2}}{\frac{4}{5} + \frac{3}{10}}$$

$$F = \frac{\frac{16 \times 9}{3 \times 2}}{\frac{4 \times 2}{5 \times 2} + \frac{3}{10}}$$

$$F = \frac{\frac{8 \times 2 \times 3 \times 3}{3 \times 2}}{\frac{8}{10} + \frac{3}{10}}$$

$$F = \frac{\frac{8 \times 3}{1}}{\frac{11}{10}}$$

$$F = \frac{24}{1} \times \frac{10}{11}$$

$$F = \frac{24 \times 10}{1 \times 11}$$

$$F = \frac{240}{11}$$