

## 4e - Chapitre 4 - Fractions - Question flash 04 - correction

32 Effectuer les calculs suivants.

$$A = \frac{-3}{5} + \frac{9}{20}$$

$$B = \frac{5}{12} - \frac{3}{8}$$

$$C = -2 - \frac{-4}{3}$$

33 Calculer et donner chaque résultat sous forme d'une fraction irréductible.

$$D = \frac{14}{15} - \frac{7}{20} + \frac{-1}{6}$$

$$E = \frac{-5}{8} - \frac{5}{24} + \frac{-5}{12}$$

40 Calculer et donner chaque résultat sous forme d'une fraction irréductible.

$$I = \frac{-33}{25} \times \frac{45}{44}$$

$$W = \frac{-5}{12} + \frac{7}{12} \div \frac{5}{18}$$

$$F = \frac{11}{6} - \left( \frac{-3}{4} - \frac{5}{6} \right)$$

$$\text{Ex 32 : } A = \frac{-3}{5} + \frac{9}{20} = \frac{-12}{20} + \frac{9}{20} = \frac{-3}{20} \quad ; \quad B = \frac{5}{12} - \frac{3}{8} = \frac{10}{24} - \frac{9}{24} = \frac{1}{24}$$

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

$$\text{Ex 33 : } D = \frac{14}{15} - \frac{7}{20} + \frac{-1}{6} = \frac{56}{60} - \frac{21}{60} + \frac{-10}{60} = \frac{25}{60} = \frac{5}{12}$$

$$E = \frac{-5}{8} - \frac{5}{24} + \frac{-5}{12} = \frac{-15}{24} - \frac{5}{24} + \frac{-10}{24} = \frac{-30}{24} = \frac{-5}{4}$$

$$\text{Ex 40 : } I = \frac{-33}{25} \times \frac{45}{44} = \frac{-33 \times 45}{25 \times 44} = \frac{-3 \times 11 \times 9 \times 5}{5 \times 5 \times 4 \times 11} = \frac{-3 \times 9}{5 \times 4} = \frac{-27}{20}$$

$$W = \frac{-5}{12} + \frac{7}{12} \div \frac{5}{18} = \frac{-5}{12} + \frac{7}{12} \times \frac{18}{5} = \frac{-5}{12} + \frac{126}{60} = \frac{-25}{60} + \frac{126}{60} = \frac{101}{60}$$

$$F = \frac{11}{6} - \left( \frac{-3}{4} - \frac{5}{6} \right) = \frac{11}{6} - \left( \frac{-9}{12} - \frac{10}{12} \right) = \frac{11}{6} - \left( \frac{-19}{12} \right) = \frac{11}{6} + \frac{19}{12} = \frac{22}{6} + \frac{19}{12} = \frac{41}{12}$$