

CORRECTION : Opérations sur les fractions (1)

Application 1

$$a) \frac{3}{5} = \frac{3 \times 7}{5 \times 7} = \frac{21}{35}$$

$$b) \frac{3}{4} = \frac{3 \times 15}{4 \times 15} = \frac{45}{60}$$

$$c) \frac{80}{100} = \frac{80 \div 20}{100 \div 20} = \frac{4}{5}$$

$$d) \frac{49}{21} = \frac{49 \div 7}{21 \div 7} = \frac{7}{3}$$

$$a) \frac{4}{3} = \frac{4 \times 5}{3 \times 5} = \frac{20}{15}$$

$$b) \frac{5}{6} = \frac{5 \times 6}{6 \times 6} = \frac{30}{36}$$

$$c) \frac{3,4}{7,8} = \frac{3,4 \times 10}{7,8 \times 10} = \frac{34}{78}$$

$$d) \frac{56}{24} = \frac{56 \div 8}{24 \div 8} = \frac{7}{3}$$

$$\frac{56}{24} = \frac{56 \div 8}{24 \div 8} = \frac{7}{3}$$

$$e) \frac{72}{45} = \frac{72 \div 9}{45 \div 9} = \frac{8}{5}$$

Application 2 :

$$\frac{60}{45} = \frac{3 \times 20}{3 \times 15} = \frac{20}{15} = \frac{4 \times 5}{3 \times 5} = \frac{4}{3}$$

$$\frac{42}{30} = \frac{6 \times 7}{6 \times 5} = \frac{7}{5}$$

$$\frac{18}{45} = \frac{3 \times 6}{3 \times 15} = \frac{6}{15} = \frac{3 \times 2}{3 \times 5} = \frac{2}{5}$$

$$\frac{240}{78} = \frac{6 \times 40}{6 \times 13} = \frac{40}{13}$$

Application 3 :

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

$$\frac{14}{5} - \frac{9}{5} = \frac{14-9}{5} = \frac{5}{5}$$

$$\frac{4}{5} + \frac{7}{15} = \frac{4 \times 3}{5 \times 3} + \frac{7}{15} = \frac{12}{15} + \frac{7}{15} = \frac{12+7}{15} = \frac{19}{15}$$

$$\frac{5}{12} + \frac{1}{4} = \frac{5}{12} + \frac{1 \times 3}{4 \times 3} = \frac{5}{12} + \frac{3}{12} = \frac{5+3}{12} = \frac{8}{12}$$

$$\frac{6}{7} - \frac{5}{49} = \frac{6 \times 7}{7 \times 7} - \frac{5}{49} = \frac{42}{49} - \frac{5}{49} = \frac{42-5}{49} = \frac{37}{49}$$

$$\frac{2}{3} + \frac{7}{3} - \frac{5}{3} = \frac{2+7-5}{3} = \frac{9-5}{3} = \frac{4}{3}$$

$$\begin{aligned} \frac{7}{3} + \frac{5}{12} - \frac{4}{6} &= \frac{7 \times 4}{3 \times 4} + \frac{5}{12} - \frac{4 \times 2}{6 \times 2} = \frac{28}{12} + \frac{5}{12} - \frac{8}{12} \\ &= \frac{28+5-8}{12} = \frac{33-8}{12} = \frac{25}{12} \end{aligned}$$

$$\frac{7}{11} + \frac{5}{11} = \frac{7+5}{11} = \frac{12}{11}$$

$$\frac{10}{15} - \frac{3}{15} = \frac{10-3}{15} = \frac{7}{15}$$

$$\frac{3}{11} - \frac{2}{44} = \frac{3 \times 4}{11 \times 4} - \frac{2}{44} = \frac{12}{44} - \frac{2}{44} = \frac{12-2}{44} = \frac{10}{44}$$

$$\frac{11}{48} - \frac{1}{6} = \frac{11}{48} - \frac{1 \times 8}{6 \times 8} = \frac{11}{48} - \frac{8}{48} = \frac{11-8}{48} = \frac{3}{48}$$

$$\frac{17}{11} - \frac{8}{11} - \frac{3}{11} = \frac{17-8-3}{11} = \frac{9-3}{11} = \frac{6}{11}$$

$$\begin{aligned} \frac{7}{15} - \frac{1}{5} + \frac{6}{45} &= \frac{7 \times 3}{15 \times 3} - \frac{1 \times 9}{5 \times 9} + \frac{6}{45} = \frac{21}{45} - \frac{9}{45} + \frac{6}{45} \\ &= \frac{21-9+6}{45} = \frac{12+6}{45} = \frac{18}{45} \end{aligned}$$