

**Corrigé de l'exercice 1**

Calculer en détaillant les étapes. Donner le résultat sous la forme d'une fraction la plus simple possible (ou d'un entier lorsque c'est possible).

$$\blacktriangleright 1. A = \frac{10}{7} + \frac{7}{2}$$

$$A = \frac{10 \times 2}{7 \times 2} + \frac{7 \times 7}{2 \times 7}$$

$$A = \frac{20}{14} + \frac{49}{14}$$

$$A = \frac{69}{14}$$

$$\blacktriangleright 2. B = \frac{5}{8} + 2,7$$

$$B = \frac{5 \times 5}{8 \times 5} + \frac{27 \times 4}{10 \times 4}$$

$$B = \frac{25}{40} + \frac{108}{40}$$

$$B = \frac{133}{40}$$

$$\blacktriangleright 3. C = \frac{2}{27} - \frac{5}{9}$$

$$C = \frac{2}{27} - \frac{5 \times 3}{9 \times 3}$$

$$C = \frac{2}{27} - \frac{15}{27}$$

$$C = \frac{-13}{27}$$

$$\blacktriangleright 4. D = \frac{7}{9} + 1$$

$$D = \frac{7}{9} + \frac{1 \times 9}{1 \times 9}$$

$$D = \frac{7}{9} + \frac{9}{9}$$

$$D = \frac{16}{9}$$

$$\blacktriangleright 5. E = \frac{2}{10} + \frac{8}{3}$$

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

$$E = \frac{6}{30} + \frac{80}{30}$$

$$E = \frac{86}{30}$$

$$E = \frac{43 \times 2}{15 \times 2}$$

$$E = \frac{43}{15}$$

$$\blacktriangleright 6. F = \frac{9}{8} + \frac{2}{10}$$

$$F = \frac{9 \times 5}{8 \times 5} + \frac{2 \times 4}{10 \times 4}$$

$$F = \frac{45}{40} + \frac{8}{40}$$

$$F = \frac{53}{40}$$

$$\blacktriangleright 7. G = \frac{8}{3} + \frac{5}{3}$$

$$G = \frac{13}{3}$$

$$\blacktriangleright 8. H = \frac{10}{8} + 4$$

$$H = \frac{10}{8} + \frac{4 \times 8}{1 \times 8}$$

$$H = \frac{10}{8} + \frac{32}{8}$$

$$H = \frac{42}{8}$$

$$H = \frac{21 \times 2}{4 \times 2}$$

$$H = \frac{21}{4}$$

**Corrigé de l'exercice 2**

Calculer en détaillant les étapes. Donner le résultat sous la forme d'une fraction la plus simple possible (ou d'un entier lorsque c'est possible).

$$\blacktriangleright 1. A = \frac{8}{90} - \frac{8}{9}$$

$$A = \frac{8}{90} - \frac{8 \times 10}{9 \times 10}$$

$$A = \frac{8}{90} - \frac{80}{90}$$

$$A = \frac{-72}{90}$$

$$A = \frac{-4 \times 18}{5 \times 18}$$

$$A = \frac{-4}{5}$$

$$\blacktriangleright 2. B = \frac{7}{9} + \frac{1}{9}$$

$$B = \frac{8}{9}$$

$$\blacktriangleright 3. C = \frac{6}{10} + 6,6$$

$$C = \frac{72}{10}$$

$$C = \frac{36 \times 2}{5 \times 2}$$

$$C = \frac{36}{5}$$

$$\blacktriangleright 4. D = 1 - \frac{4}{10}$$

$$D = \frac{1 \times 10}{1 \times 10} - \frac{4}{10}$$

$$D = \frac{10}{10} - \frac{4}{10}$$

$$D = \frac{6}{10}$$

$$D = \frac{3 \times 2}{5 \times 2}$$

$$D = \frac{3}{5}$$

$$\blacktriangleright 5. E = \frac{9}{4} - \frac{4}{9}$$

$$E = \frac{9 \times 9}{4 \times 9} - \frac{4 \times 4}{9 \times 4}$$

$$E = \frac{81}{36} - \frac{16}{36}$$

$$E = \frac{65}{36}$$

$$\blacktriangleright 6. F = \frac{5}{6} + \frac{6}{9}$$

$$F = \frac{5 \times 3}{6 \times 3} + \frac{6 \times 2}{9 \times 2}$$

$$F = \frac{15}{18} + \frac{12}{18}$$

$$F = \frac{27}{18}$$

$$F = \frac{3 \times 9}{2 \times 9}$$

$$F = \frac{3}{2}$$

$$\blacktriangleright 7. G = 9 - \frac{3}{9}$$

$$G = \frac{9 \times 9}{1 \times 9} - \frac{3}{9}$$

$$G = \frac{81}{9} - \frac{3}{9}$$

$$G = \frac{78}{9}$$

$$G = \frac{26 \times 3}{3 \times 3}$$

$$G = \frac{26}{3}$$

$$\blacktriangleright 8. H = \frac{6}{4} - \frac{4}{5}$$

$$H = \frac{6 \times 5}{4 \times 5} - \frac{4 \times 4}{5 \times 4}$$

$$H = \frac{30}{20} - \frac{16}{20}$$

$$H = \frac{14}{20}$$

$$H = \frac{7 \times 2}{10 \times 2}$$

$$H = \frac{7}{10}$$

**Corrigé de l'exercice 3**

Calculer en détaillant les étapes. Donner le résultat sous la forme d'une fraction la plus simple possible (ou d'un entier lorsque c'est possible).

►1.  $A = \frac{9}{7} - \frac{3}{9}$

$$A = \frac{9 \times 9}{7 \times 9} - \frac{3 \times 7}{9 \times 7}$$

$$A = \frac{81}{63} - \frac{21}{63}$$

$$A = \frac{60}{63}$$

$$A = \frac{20 \times \cancel{3}}{21 \times \cancel{3}}$$

$$A = \frac{20}{21}$$

►2.  $B = \frac{6}{5} - \frac{2}{5}$

$$B = \frac{4}{5}$$

►3.  $C = 6 - \frac{9}{8}$

$$C = \frac{6 \times 8}{1 \times 8} - \frac{9}{8}$$

$$C = \frac{48}{8} - \frac{9}{8}$$

$$C = \frac{39}{8}$$

►4.  $D = \frac{5}{12} + \frac{6}{3}$

$$D = \frac{5}{12} + \frac{6 \times 4}{3 \times 4}$$

$$D = \frac{5}{12} + \frac{24}{12}$$

$$D = \frac{29}{12}$$

►5.  $E = \frac{3}{9} + 1$

$$E = \frac{3}{9} + \frac{1 \times 9}{1 \times 9}$$

$$E = \frac{3}{9} + \frac{9}{9}$$

$$E = \frac{12}{9}$$

$$E = \frac{4 \times \cancel{3}}{\cancel{3} \times 3}$$

$$E = \frac{4}{3}$$

►6.  $F = \frac{7}{6} - \frac{4}{10}$

$$F = \frac{7 \times 5}{6 \times 5} - \frac{4 \times 3}{10 \times 3}$$

$$F = \frac{35}{30} - \frac{12}{30}$$

$$F = \frac{23}{30}$$

►7.  $G = \frac{3}{6} + 8,4$

$$G = \frac{3 \times 5}{6 \times 5} + \frac{84 \times 3}{10 \times 3}$$

$$G = \frac{15}{30} + \frac{252}{30}$$

$$G = \frac{267}{30}$$

$$G = \frac{89 \times \cancel{3}}{10 \times \cancel{3}}$$

$$G = \frac{89}{10}$$

►8.  $H = \frac{10}{9} + \frac{1}{5}$

$$H = \frac{10 \times 5}{9 \times 5} + \frac{1 \times 9}{5 \times 9}$$

$$H = \frac{50}{45} + \frac{9}{45}$$

$$H = \frac{59}{45}$$

**Corrigé de l'exercice 4**

Calculer en détaillant les étapes. Donner le résultat sous la forme d'une fraction la plus simple possible (ou d'un entier lorsque c'est possible).

►1.  $A = \frac{6}{42} - \frac{1}{6}$

$$A = \frac{6}{42} - \frac{1 \times 7}{6 \times 7}$$

$$A = \frac{6}{42} - \frac{7}{42}$$

$$A = \frac{-1}{42}$$

►2.  $B = \frac{6}{7} + \frac{7}{5}$

$$B = \frac{6 \times 5}{7 \times 5} + \frac{7 \times 7}{5 \times 7}$$

$$B = \frac{30}{35} + \frac{49}{35}$$

$$B = \frac{79}{35}$$

►3.  $C = \frac{8}{10} + 5,5$

$$C = \frac{63}{10}$$

►4.  $D = 5 - \frac{6}{6}$

$$D = \frac{5 \times 6}{1 \times 6} - \frac{6}{6}$$

$$D = \frac{30}{6} - \frac{6}{6}$$

$$D = \frac{24}{6}$$

$$D = \frac{4 \times \cancel{6}}{1 \times \cancel{6}}$$

$$D = 4$$

►5.  $E = \frac{9}{4} + \frac{10}{6}$

$$E = \frac{9 \times 3}{4 \times 3} + \frac{10 \times 2}{6 \times 2}$$

$$E = \frac{27}{12} + \frac{20}{12}$$

$$E = \frac{47}{12}$$

►6.  $F = \frac{2}{4} + \frac{4}{3}$

$$F = \frac{2 \times 3}{4 \times 3} + \frac{4 \times 4}{3 \times 4}$$

$$F = \frac{6}{12} + \frac{16}{12}$$

$$F = \frac{22}{12}$$

$$F = \frac{11 \times \cancel{2}}{6 \times \cancel{2}}$$

$$F = \frac{11}{6}$$

►7.  $G = \frac{5}{7} - \frac{1}{7}$

$$G = \frac{4}{7}$$

►8.  $H = \frac{9}{6} - 1$

$$H = \frac{9}{6} - \frac{1 \times 6}{1 \times 6}$$

$$H = \frac{9}{6} - \frac{6}{6}$$

$$H = \frac{3}{6}$$

$$H = \frac{1 \times \cancel{3}}{2 \times \cancel{3}}$$

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

**Corrigé de l'exercice 5**

Calculer en détaillant les étapes. Donner le résultat sous la forme d'une fraction la plus simple possible (ou d'un entier lorsque c'est possible).

$$\blacktriangleright 1. A = \frac{7}{4} - \frac{4}{6}$$

$$A = \frac{7 \times 3}{4 \times 3} - \frac{4 \times 2}{6 \times 2}$$

$$A = \frac{21}{12} - \frac{8}{12}$$

$$A = \frac{13}{12}$$

$$\blacktriangleright 2. B = \frac{9}{6} - \frac{7}{10}$$

$$B = \frac{9 \times 5}{6 \times 5} - \frac{7 \times 3}{10 \times 3}$$

$$B = \frac{45}{30} - \frac{21}{30}$$

$$B = \frac{24}{30}$$

$$B = \frac{4 \times 6}{5 \times 6}$$

$$B = \frac{4}{5}$$

$$\blacktriangleright 3. C = \frac{10}{2} - \frac{8}{3}$$

$$C = \frac{10 \times 3}{2 \times 3} - \frac{8 \times 2}{3 \times 2}$$

$$C = \frac{30}{6} - \frac{16}{6}$$

$$C = \frac{14}{6}$$

$$C = \frac{7 \times 2}{3 \times 2}$$

$$C = \frac{7}{3}$$

$$\blacktriangleright 4. D = 1 - \frac{2}{9}$$

$$D = \frac{1 \times 9}{1 \times 9} - \frac{2}{9}$$

$$D = \frac{9}{9} - \frac{2}{9}$$

$$D = \frac{7}{9}$$

$$\blacktriangleright 5. E = \frac{10}{24} + \frac{10}{6}$$

$$E = \frac{10}{24} + \frac{10 \times 4}{6 \times 4}$$

$$E = \frac{10}{24} + \frac{40}{24}$$

$$E = \frac{50}{24}$$

$$E = \frac{25 \times 2}{12 \times 2}$$

$$E = \frac{25}{12}$$

$$\blacktriangleright 6. F = \frac{7}{7} + 2,1$$

$$F = \frac{7 \times 10}{7 \times 10} + \frac{21 \times 7}{10 \times 7}$$

$$F = \frac{70}{70} + \frac{147}{70}$$

$$F = \frac{217}{70}$$

$$F = \frac{31 \times 7}{10 \times 7}$$

$$F = \frac{31}{10}$$

$$\blacktriangleright 7. G = \frac{4}{6} - \frac{4}{6}$$

$$G = 0$$

$$\blacktriangleright 8. H = \frac{1}{6} + 3$$

$$H = \frac{1}{6} + \frac{3 \times 6}{1 \times 6}$$

$$H = \frac{1}{6} + \frac{18}{6}$$

$$H = \frac{19}{6}$$

### Corrigé de l'exercice 6

Calculer en détaillant les étapes. Donner le résultat sous la forme d'une fraction la plus simple possible (ou d'un entier lorsque c'est possible).

$$\blacktriangleright 1. A = \frac{10}{15} + \frac{10}{5}$$

$$A = \frac{10}{15} + \frac{10 \times 3}{5 \times 3}$$

$$A = \frac{10}{15} + \frac{30}{15}$$

$$A = \frac{40}{15}$$

$$A = \frac{8 \times 5}{3 \times 5}$$

$$A = \frac{8}{3}$$

$$\blacktriangleright 2. B = 1 - \frac{5}{9}$$

$$B = \frac{1 \times 9}{1 \times 9} - \frac{5}{9}$$

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

$$B = \frac{4}{9}$$

$$\blacktriangleright 3. C = 6 - \frac{7}{3}$$

$$C = \frac{6 \times 3}{1 \times 3} - \frac{7}{3}$$

$$C = \frac{18}{3} - \frac{7}{3}$$

$$C = \frac{11}{3}$$

$$\blacktriangleright 4. D = \frac{4}{3} - \frac{2}{3}$$

$$D = \frac{2}{3}$$

$$\blacktriangleright 5. E = \frac{1}{6} + \frac{3}{7}$$

$$E = \frac{1 \times 7}{6 \times 7} + \frac{3 \times 6}{7 \times 6}$$

$$E = \frac{7}{42} + \frac{18}{42}$$

$$E = \frac{25}{42}$$

$$\blacktriangleright 6. F = \frac{9}{9} - \frac{4}{10}$$

$$F = \frac{9 \times 10}{9 \times 10} - \frac{4 \times 9}{10 \times 9}$$

$$F = \frac{90}{90} - \frac{36}{90}$$

$$F = \frac{54}{90}$$

$$F = \frac{3 \times 18}{5 \times 18}$$

$$F = \frac{3}{5}$$

$$\blacktriangleright 7. G = \frac{8}{8} + \frac{3}{5}$$

$$G = \frac{8 \times 5}{8 \times 5} + \frac{3 \times 8}{5 \times 8}$$

$$G = \frac{40}{40} + \frac{24}{40}$$

$$G = \frac{64}{40}$$

$$G = \frac{8 \times 8}{5 \times 8}$$

$$G = \frac{8}{5}$$

$$\blacktriangleright 8. H = \frac{10}{2} + 2,4$$

$$H = \frac{10 \times 5}{2 \times 5} + \frac{24}{10}$$

$$H = \frac{50}{10} + \frac{24}{10}$$

$$H = \frac{74}{10}$$

$$H = \frac{37 \times 2}{5 \times 2}$$

$$H = \frac{37}{5}$$