

**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).

$$\blacktriangleright 1. A = \frac{7}{2} - \frac{4}{10}$$

$$A = \frac{7 \times 5}{2 \times 5} - \frac{4}{10}$$

$$A = \frac{35}{10} - \frac{4}{10}$$

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

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

$$B = \frac{1}{9}$$

$$\blacktriangleright 3. C = 10 - \frac{4}{4}$$

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

$$C = \frac{40}{4} - \frac{4}{4}$$

$$C = \frac{36}{4}$$

$$C = \frac{9 \times 4}{1 \times 4}$$

$$C = 9$$

$$\blacktriangleright 4. D = 10 - \frac{7}{5}$$

$$D = \frac{10 \times 5}{1 \times 5} - \frac{7}{5}$$

$$D = \frac{50}{5} - \frac{7}{5}$$

$$D = \frac{43}{5}$$

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

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

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

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

$$\blacktriangleright 6. F = \frac{1}{14} + \frac{10}{7}$$

$$F = \frac{1}{14} + \frac{10 \times 2}{7 \times 2}$$

$$F = \frac{1}{14} + \frac{20}{14}$$

$$F = \frac{21}{14}$$

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

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

$$\blacktriangleright 7. G = \frac{9}{8} - 1$$

$$G = \frac{9}{8} - \frac{1 \times 8}{1 \times 8}$$

$$G = \frac{9}{8} - \frac{8}{8}$$

$$G = \frac{1}{8}$$

$$\blacktriangleright 8. H = \frac{8}{70} - \frac{2}{7}$$

$$H = \frac{8}{70} - \frac{2 \times 10}{7 \times 10}$$

$$H = \frac{8}{70} - \frac{20}{70}$$

$$H = \frac{-12}{70}$$

$$H = \frac{-6 \times 2}{35 \times 2}$$

$$H = \frac{-6}{35}$$

**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).

$$\blacktriangleright 1. A = \frac{10}{6} - \frac{5}{6}$$

$$A = \frac{5}{6}$$

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

$$B = \frac{7}{7} + \frac{10 \times 7}{1 \times 7}$$

$$B = \frac{7}{7} + \frac{70}{7}$$

$$B = \frac{77}{7}$$

$$B = \frac{11 \times 7}{1 \times 7}$$

$$B = 11$$

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

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

$$C = \frac{5}{6} + \frac{6}{6}$$

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

$$\blacktriangleright 4. D = \frac{9}{7} - \frac{9}{35}$$

$$D = \frac{9 \times 5}{7 \times 5} - \frac{9}{35}$$

$$D = \frac{45}{35} - \frac{9}{35}$$

$$D = \frac{36}{35}$$

$$\blacktriangleright 5. E = \frac{4}{3} - \frac{5}{15}$$

$$E = \frac{4 \times 5}{3 \times 5} - \frac{5}{15}$$

$$E = \frac{20}{15} - \frac{5}{15}$$

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

$$E = 1$$

$$\blacktriangleright 6. F = 3 - \frac{8}{4}$$

$$F = \frac{3 \times 4}{1 \times 4} - \frac{8}{4}$$

$$F = \frac{12}{4} - \frac{8}{4}$$

$$F = \frac{4}{4}$$

$$F = 1$$

$$\blacktriangleright 7. G = \frac{7}{6} + 1$$

$$G = \frac{7}{6} + \frac{1 \times 6}{1 \times 6}$$

$$G = \frac{7}{6} + \frac{6}{6}$$

$$G = \frac{13}{6}$$

$$\blacktriangleright 8. H = \frac{8}{4} - \frac{2}{2}$$

$$H = \frac{8}{4} - \frac{2 \times 2}{2 \times 2}$$

$$H = \frac{8}{4} - \frac{4}{4}$$

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

$$H = 1$$

**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).

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

$$A = \frac{2}{2} + \frac{1 \times 2}{1 \times 2}$$

$$A = \frac{2}{2} + \frac{2}{2}$$

$$A = \frac{4}{2}$$

$$A = \frac{\cancel{2} \times 2}{1 \times \cancel{2}}$$

$$A = 2$$

$$\blacktriangleright 2. B = \frac{4}{10} - \frac{1}{10}$$

$$B = \frac{3}{10}$$

$$\blacktriangleright 3. C = \frac{1}{2} + 8$$

$$C = \frac{1}{2} + \frac{8 \times 2}{1 \times 2}$$

$$C = \frac{1}{2} + \frac{16}{2}$$

$$C = \frac{17}{2}$$

$$\blacktriangleright 4. D = 8 - \frac{2}{2}$$

$$D = \frac{8 \times 2}{1 \times 2} - \frac{2}{2}$$

$$D = \frac{16}{2} - \frac{2}{2}$$

$$D = \frac{14}{2}$$

$$D = \frac{7 \times \cancel{2}}{1 \times \cancel{2}}$$

$$D = 7$$

$$\blacktriangleright 5. E = \frac{5}{9} + 1$$

$$E = \frac{5}{9} + \frac{1 \times 9}{1 \times 9}$$

$$E = \frac{5}{9} + \frac{9}{9}$$

$$E = \frac{14}{9}$$

$$\blacktriangleright 6. F = \frac{2}{4} + \frac{9}{2}$$

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

$$F = \frac{2}{4} + \frac{18}{4}$$

$$F = \frac{20}{4}$$

$$F = \frac{5 \times \cancel{4}}{1 \times \cancel{4}}$$

$$F = 5$$

$$\blacktriangleright 7. G = \frac{6}{3} - \frac{5}{21}$$

$$G = \frac{6 \times 7}{3 \times 7} - \frac{5}{21}$$

$$G = \frac{42}{21} - \frac{5}{21}$$

$$G = \frac{37}{21}$$

$$\blacktriangleright 8. H = \frac{6}{2} - \frac{3}{16}$$

$$H = \frac{6 \times 8}{2 \times 8} - \frac{3}{16}$$

$$H = \frac{48}{16} - \frac{3}{16}$$

$$H = \frac{45}{16}$$

### 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).

$$\blacktriangleright 1. A = \frac{8}{2} - \frac{3}{2}$$

$$A = \frac{5}{2}$$

$$\blacktriangleright 2. B = \frac{2}{16} + \frac{6}{2}$$

$$B = \frac{2}{16} + \frac{6 \times 8}{2 \times 8}$$

$$B = \frac{2}{16} + \frac{48}{16}$$

$$B = \frac{50}{16}$$

$$B = \frac{25 \times \cancel{2}}{8 \times \cancel{2}}$$

$$B = \frac{25}{8}$$

$$\blacktriangleright 3. C = \frac{9}{56} + \frac{3}{8}$$

$$C = \frac{9}{56} + \frac{3 \times 7}{8 \times 7}$$

$$C = \frac{9}{56} + \frac{21}{56}$$

$$C = \frac{30}{56}$$

$$C = \frac{15 \times \cancel{2}}{28 \times \cancel{2}}$$

$$C = \frac{15}{28}$$

$$\blacktriangleright 4. D = \frac{6}{2} + 9$$

$$D = \frac{6}{2} + \frac{9 \times 2}{1 \times 2}$$

$$D = \frac{6}{2} + \frac{18}{2}$$

$$D = \frac{24}{2}$$

$$D = \frac{12 \times \cancel{2}}{1 \times \cancel{2}}$$

$$D = 12$$

$$\blacktriangleright 5. E = \frac{9}{3} - \frac{1}{15}$$

$$E = \frac{9 \times 5}{3 \times 5} - \frac{1}{15}$$

$$E = \frac{45}{15} - \frac{1}{15}$$

$$E = \frac{44}{15}$$

$$\blacktriangleright 6. F = \frac{9}{7} + 1$$

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

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

$$F = \frac{16}{7}$$

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

$$G = \frac{4}{4} - \frac{1 \times 4}{1 \times 4}$$

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

$$G = 0$$

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

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

$$H = \frac{80}{8} - \frac{4}{8}$$

$$H = \frac{76}{8}$$

$$H = \frac{19 \times \cancel{4}}{2 \times \cancel{4}}$$

$$H = \frac{19}{2}$$

### 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).

►1.  $A = \frac{9}{15} + \frac{1}{5}$   
 $A = \frac{9}{15} + \frac{1 \times 3}{5 \times 3}$   
 $A = \frac{9}{15} + \frac{3}{15}$   
 $A = \frac{12}{15}$   
 $A = \frac{4 \times \cancel{3}}{5 \times \cancel{3}}$   
 $A = \frac{4}{5}$

►2.  $B = 9 - \frac{7}{2}$   
 $B = \frac{9 \times 2}{1 \times 2} - \frac{7}{2}$   
 $B = \frac{18}{2} - \frac{7}{2}$   
 $B = \frac{11}{2}$

►3.  $C = 7 - \frac{1}{8}$   
 $C = \frac{7 \times 8}{1 \times 8} - \frac{1}{8}$   
 $C = \frac{56}{8} - \frac{1}{8}$   
 $C = \frac{55}{8}$

►4.  $D = \frac{3}{10} + \frac{7}{10}$   
 $D = \frac{10}{10}$   
 $D = 1$

►5.  $E = \frac{10}{7} - 1$   
 $E = \frac{10}{7} - \frac{1 \times 7}{1 \times 7}$   
 $E = \frac{10}{7} - \frac{7}{7}$

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

►6.  $F = \frac{9}{7} + 1$   
 $F = \frac{9}{7} + \frac{1 \times 7}{1 \times 7}$   
 $F = \frac{9}{7} + \frac{7}{7}$   
 $F = \frac{16}{7}$

►7.  $G = \frac{6}{4} - \frac{5}{40}$   
 $G = \frac{6 \times 10}{4 \times 10} - \frac{5}{40}$   
 $G = \frac{60}{40} - \frac{5}{40}$   
 $G = \frac{55}{40}$

$$G = \frac{11 \times \cancel{5}}{8 \times \cancel{5}}$$

$$G = \frac{11}{8}$$

►8.  $H = \frac{9}{7} - \frac{10}{56}$   
 $H = \frac{9 \times 8}{7 \times 8} - \frac{10}{56}$   
 $H = \frac{72}{56} - \frac{10}{56}$   
 $H = \frac{62}{56}$   
 $H = \frac{31 \times \cancel{2}}{28 \times \cancel{2}}$   
 $H = \frac{31}{28}$

### 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).

►1.  $A = \frac{6}{2} - \frac{4}{20}$   
 $A = \frac{6 \times 10}{2 \times 10} - \frac{4}{20}$   
 $A = \frac{60}{20} - \frac{4}{20}$   
 $A = \frac{56}{20}$   
 $A = \frac{14 \times \cancel{4}}{5 \times \cancel{4}}$   
 $A = \frac{14}{5}$

►2.  $B = \frac{8}{2} + 6$   
 $B = \frac{8}{2} + \frac{6 \times 2}{1 \times 2}$   
 $B = \frac{8}{2} + \frac{12}{2}$

$$B = \frac{20}{2}$$

$$B = \frac{10 \times \cancel{2}}{1 \times \cancel{2}}$$

$$B = 10$$

►3.  $C = 1 - \frac{4}{7}$   
 $C = \frac{1 \times 7}{1 \times 7} - \frac{4}{7}$   
 $C = \frac{7}{7} - \frac{4}{7}$   
 $C = \frac{3}{7}$

►4.  $D = \frac{7}{4} - \frac{3}{40}$   
 $D = \frac{7 \times 10}{4 \times 10} - \frac{3}{40}$

$$D = \frac{70}{40} - \frac{3}{40}$$

$$D = \frac{67}{40}$$

►5.  $E = \frac{10}{5} + 7$   
 $E = \frac{10}{5} + \frac{7 \times 5}{1 \times 5}$   
 $E = \frac{10}{5} + \frac{35}{5}$   
 $E = \frac{45}{5}$   
 $E = \frac{9 \times \cancel{5}}{1 \times \cancel{5}}$   
 $E = 9$

►6.  $F = 1 - \frac{8}{9}$   
 $F = \frac{1 \times 9}{1 \times 9} - \frac{8}{9}$

$$F = \frac{9}{9} - \frac{8}{9}$$

$$F = \frac{1}{9}$$

►7.  $G = \frac{1}{20} - \frac{1}{10}$   
 $G = \frac{1}{20} - \frac{1 \times 2}{10 \times 2}$   
 $G = \frac{1}{20} - \frac{2}{20}$   
 $G = \frac{-1}{20}$

►8.  $H = \frac{1}{7} + \frac{7}{7}$   
 $H = \frac{8}{7}$