

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).

$$\blacktriangleright 1. A = \frac{9}{5} - \frac{8}{5}$$

$$A = \frac{1}{5}$$

$$\blacktriangleright 2. B = \frac{6}{6} - \frac{3}{42}$$

$$B = \frac{6 \times 7}{6 \times 7} - \frac{3}{42}$$

$$B = \frac{42}{42} - \frac{3}{42}$$

$$B = \frac{39}{42}$$

$$B = \frac{13 \times 3}{14 \times 3}$$

$$B = \frac{13}{14}$$

$$\blacktriangleright 3. C = \frac{8}{48} + \frac{4}{6}$$

$$C = \frac{8}{48} + \frac{4 \times 8}{6 \times 8}$$

$$C = \frac{8}{48} + \frac{32}{48}$$

$$C = \frac{40}{48}$$

$$C = \frac{5 \times 8}{6 \times 8}$$

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

$$\blacktriangleright 4. D = \frac{8}{2} + 1$$

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

$$D = \frac{8}{2} + \frac{2}{2}$$

$$D = \frac{10}{2}$$

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

$$D = 5$$

$$\blacktriangleright 5. E = \frac{5}{72} + \frac{10}{8}$$

$$E = \frac{5}{72} + \frac{10 \times 9}{8 \times 9}$$

$$E = \frac{5}{72} + \frac{90}{72}$$

$$E = \frac{95}{72}$$

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

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

$$F = \frac{2}{2} + \frac{20}{2}$$

$$F = \frac{22}{2}$$

$$F = \frac{11 \times 2}{1 \times 2}$$

$$F = 11$$

$$\blacktriangleright 7. G = \frac{4}{8} + 1$$

$$G = \frac{4}{8} + \frac{1 \times 8}{1 \times 8}$$

$$G = \frac{4}{8} + \frac{8}{8}$$

$$G = \frac{12}{8}$$

$$G = \frac{3 \times 4}{2 \times 4}$$

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

$$\blacktriangleright 8. H = \frac{1}{9} + 3$$

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

$$H = \frac{1}{9} + \frac{27}{9}$$

$$H = \frac{28}{9}$$

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).

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

$$A = \frac{10}{10} - \frac{1 \times 2}{5 \times 2}$$

$$A = \frac{10}{10} - \frac{2}{10}$$

$$A = \frac{8}{10}$$

$$A = \frac{4 \times 2}{5 \times 2}$$

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

$$\blacktriangleright 2. B = 8 - \frac{7}{6}$$

$$B = \frac{8 \times 6}{1 \times 6} - \frac{7}{6}$$

$$B = \frac{48}{6} - \frac{7}{6}$$

$$B = \frac{41}{6}$$

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

$$C = \frac{11}{2}$$

$$\blacktriangleright 4. D = \frac{9}{30} + \frac{1}{10}$$

$$D = \frac{9}{30} + \frac{1 \times 3}{10 \times 3}$$

$$D = \frac{9}{30} + \frac{3}{30}$$

$$D = \frac{12}{30}$$

$$D = \frac{2 \times 6}{5 \times 6}$$

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

$$\blacktriangleright 5. E = 3 - \frac{1}{8}$$

$$E = \frac{3 \times 8}{1 \times 8} - \frac{1}{8}$$

$$E = \frac{24}{8} - \frac{1}{8}$$

$$E = \frac{23}{8}$$

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

$$F = \frac{6}{8} + \frac{1 \times 8}{1 \times 8}$$

$$F = \frac{6}{8} + \frac{8}{8}$$

$$F = \frac{14}{8}$$

$$F = \frac{7 \times 2}{4 \times 2}$$

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

$$\blacktriangleright 7. G = \frac{5}{5} + 1$$

$$G = \frac{5}{5} + \frac{1 \times 5}{1 \times 5}$$

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

$$G = \frac{10}{5}$$

$$G = \frac{2 \times 5}{1 \times 5}$$

$$G = 2$$

$$\blacktriangleright 8. H = \frac{7}{40} - \frac{1}{5}$$

$$H = \frac{7}{40} - \frac{1 \times 8}{5 \times 8}$$

$$H = \frac{7}{40} - \frac{8}{40}$$

$$H = \frac{-1}{40}$$

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. $A = \frac{10}{3} - \frac{9}{21}$

$$A = \frac{10 \times 7}{3 \times 7} - \frac{9}{21}$$

$$A = \frac{70}{21} - \frac{9}{21}$$

$$A = \frac{61}{21}$$

►2. $B = \frac{3}{8} + \frac{10}{4}$

$$B = \frac{3}{8} + \frac{10 \times 2}{4 \times 2}$$

$$B = \frac{3}{8} + \frac{20}{8}$$

$$B = \frac{23}{8}$$

►3. $C = 2 - \frac{4}{4}$

$$C = \frac{2 \times 4}{1 \times 4} - \frac{4}{4}$$

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

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

$$C = 1$$

►4. $D = \frac{1}{40} + \frac{7}{4}$

$$D = \frac{1}{40} + \frac{7 \times 10}{4 \times 10}$$

$$D = \frac{1}{40} + \frac{70}{40}$$

$$D = \frac{71}{40}$$

►5. $E = \frac{9}{6} - 1$

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

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

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

$$E = \frac{1 \times 3}{2 \times 3}$$

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

►6. $F = \frac{10}{10} - 1$

$$F = \frac{10}{10} - \frac{1 \times 10}{1 \times 10}$$

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

$$F = 0$$

►7. $G = \frac{4}{7} + \frac{8}{7}$

$$G = \frac{12}{7}$$

►8. $H = 3 - \frac{4}{4}$

$$H = \frac{3 \times 4}{1 \times 4} - \frac{4}{4}$$

$$H = \frac{12}{4} - \frac{4}{4}$$

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

$$H = \frac{2 \times 4}{1 \times 4}$$

$$H = 2$$

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. $A = \frac{3}{2} + 1$

$$A = \frac{3}{2} + \frac{1 \times 2}{1 \times 2}$$

$$A = \frac{3}{2} + \frac{2}{2}$$

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

►2. $B = 1 - \frac{4}{9}$

$$B = \frac{1 \times 9}{1 \times 9} - \frac{4}{9}$$

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

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

►3. $C = \frac{5}{6} + 8$

$$C = \frac{5}{6} + \frac{8 \times 6}{1 \times 6}$$

$$C = \frac{5}{6} + \frac{48}{6}$$

$$C = \frac{53}{6}$$

►4. $D = \frac{6}{28} + \frac{8}{4}$

$$D = \frac{6}{28} + \frac{8 \times 7}{4 \times 7}$$

$$D = \frac{6}{28} + \frac{56}{28}$$

$$D = \frac{62}{28}$$

$$D = \frac{31 \times 2}{14 \times 2}$$

$$D = \frac{31}{14}$$

►5. $E = \frac{3}{10} - \frac{2}{10}$

$$E = \frac{1}{10}$$

►6. $F = \frac{8}{3} - 2$

$$F = \frac{8}{3} - \frac{2 \times 3}{1 \times 3}$$

$$F = \frac{8}{3} - \frac{6}{3}$$

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

►7. $G = \frac{5}{56} - \frac{4}{7}$

$$G = \frac{5}{56} - \frac{4 \times 8}{7 \times 8}$$

$$G = \frac{5}{56} - \frac{32}{56}$$

$$G = \frac{-27}{56}$$

►8. $H = \frac{4}{30} - \frac{7}{10}$

$$H = \frac{4}{30} - \frac{7 \times 3}{10 \times 3}$$

$$H = \frac{4}{30} - \frac{21}{30}$$

$$H = \frac{-17}{30}$$

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).

$$\begin{aligned} \text{►1. } A &= \frac{4}{60} + \frac{9}{6} \\ A &= \frac{4}{60} + \frac{9 \times 10}{6 \times 10} \\ A &= \frac{4}{60} + \frac{90}{60} \\ A &= \frac{94}{60} \\ A &= \frac{47 \times 2}{30 \times 2} \\ A &= \frac{47}{30} \\ \text{►2. } B &= \frac{7}{7} + 2 \\ B &= \frac{7}{7} + \frac{2 \times 7}{1 \times 7} \\ B &= \frac{7}{7} + \frac{14}{7} \\ B &= \frac{21}{7} \end{aligned}$$

$$\begin{aligned} B &= \frac{3 \times 7}{1 \times 7} \\ B &= 3 \\ \text{►3. } C &= \frac{2}{36} + \frac{7}{6} \\ C &= \frac{2}{36} + \frac{7 \times 6}{6 \times 6} \\ C &= \frac{2}{36} + \frac{42}{36} \\ C &= \frac{44}{36} \\ C &= \frac{11 \times 4}{9 \times 4} \\ C &= \frac{11}{9} \\ \text{►4. } D &= \frac{1}{4} + 1 \\ D &= \frac{1}{4} + \frac{1 \times 4}{1 \times 4} \end{aligned}$$

$$\begin{aligned} D &= \frac{1}{4} + \frac{4}{4} \\ D &= \frac{5}{4} \\ \text{►5. } E &= \frac{9}{10} - \frac{9}{10} \\ E &= 0 \\ \text{►6. } F &= \frac{5}{54} + \frac{8}{9} \\ F &= \frac{5}{54} + \frac{8 \times 6}{9 \times 6} \\ F &= \frac{5}{54} + \frac{48}{54} \\ F &= \frac{53}{54} \\ \text{►7. } G &= \frac{9}{7} - 1 \\ G &= \frac{9}{7} - \frac{1 \times 7}{1 \times 7} \end{aligned}$$

$$\begin{aligned} G &= \frac{9}{7} - \frac{7}{7} \\ G &= \frac{2}{7} \\ \text{►8. } H &= \frac{8}{6} + 7 \\ H &= \frac{8}{6} + \frac{7 \times 6}{1 \times 6} \\ H &= \frac{8}{6} + \frac{42}{6} \\ H &= \frac{50}{6} \\ H &= \frac{25 \times 2}{3 \times 2} \\ H &= \frac{25}{3} \end{aligned}$$

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).

$$\begin{aligned} \text{►1. } A &= \frac{3}{2} + 5 \\ A &= \frac{3}{2} + \frac{5 \times 2}{1 \times 2} \\ A &= \frac{3}{2} + \frac{10}{2} \\ A &= \frac{13}{2} \\ \text{►2. } B &= \frac{5}{8} + \frac{7}{8} \\ B &= \frac{12}{8} \\ B &= \frac{3 \times 4}{2 \times 4} \\ B &= \frac{3}{2} \\ \text{►3. } C &= 9 - \frac{6}{7} \\ C &= \frac{9 \times 7}{1 \times 7} - \frac{6}{7} \end{aligned}$$

$$\begin{aligned} C &= \frac{63}{7} - \frac{6}{7} \\ C &= \frac{57}{7} \\ \text{►4. } D &= \frac{4}{3} - \frac{1}{21} \\ D &= \frac{4 \times 7}{3 \times 7} - \frac{1}{21} \\ D &= \frac{28}{21} - \frac{1}{21} \\ D &= \frac{27}{21} \\ D &= \frac{9 \times 3}{7 \times 3} \\ D &= \frac{9}{7} \\ \text{►5. } E &= 1 - \frac{4}{6} \\ E &= \frac{1 \times 6}{1 \times 6} - \frac{4}{6} \end{aligned}$$

$$\begin{aligned} E &= \frac{6}{6} - \frac{4}{6} \\ E &= \frac{2}{6} \\ E &= \frac{1 \times 2}{3 \times 2} \\ E &= \frac{1}{3} \\ \text{►6. } F &= \frac{2}{80} + \frac{2}{8} \\ F &= \frac{2}{80} + \frac{2 \times 10}{8 \times 10} \\ F &= \frac{2}{80} + \frac{20}{80} \\ F &= \frac{22}{80} \\ F &= \frac{11 \times 2}{40 \times 2} \\ F &= \frac{11}{40} \end{aligned}$$

$$\begin{aligned} \text{►7. } G &= 1 - \frac{6}{7} \\ G &= \frac{1 \times 7}{1 \times 7} - \frac{6}{7} \\ G &= \frac{7}{7} - \frac{6}{7} \\ G &= \frac{1}{7} \\ \text{►8. } H &= \frac{9}{18} - \frac{3}{9} \\ H &= \frac{9}{18} - \frac{3 \times 2}{9 \times 2} \\ H &= \frac{9}{18} - \frac{6}{18} \\ H &= \frac{3}{18} \\ H &= \frac{1 \times 3}{6 \times 3} \\ H &= \frac{1}{6} \end{aligned}$$