

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).

►1. $A = \frac{1}{4} + 1,5$

$$A = \frac{1 \times 5}{4 \times 5} + \frac{15 \times 2}{10 \times 2}$$

$$A = \frac{5}{20} + \frac{30}{20}$$

$$A = \frac{35}{20}$$

$$A = \frac{7 \times \cancel{5}}{4 \times \cancel{5}}$$

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

►2. $B = \frac{6}{5} - \frac{5}{7}$

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

$$B = \frac{42}{35} - \frac{25}{35}$$

$$B = \frac{17}{35}$$

►3. $C = \frac{7}{7} - \frac{9}{6}$

$$C = \frac{7 \times 6}{7 \times 6} - \frac{9 \times 7}{6 \times 7}$$

$$C = \frac{42}{42} - \frac{63}{42}$$

$$C = \frac{-21}{42}$$

$$C = \frac{-1 \times \cancel{21}}{2 \times \cancel{21}}$$

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

►4. $D = \frac{3}{6} + \frac{7}{6}$

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

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

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

►5. $E = \frac{7}{18} + \frac{10}{3}$

$$E = \frac{7}{18} + \frac{10 \times 6}{3 \times 6}$$

$$E = \frac{7}{18} + \frac{60}{18}$$

$$E = \frac{67}{18}$$

►6. $F = 9 - \frac{6}{6}$

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

$$F = \frac{54}{6} - \frac{6}{6}$$

$$F = \frac{48}{6}$$

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

$$F = 8$$

►7. $G = 1 - \frac{8}{10}$

$$G = \frac{1 \times 10}{1 \times 10} - \frac{8}{10}$$

$$G = \frac{10}{10} - \frac{8}{10}$$

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

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

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

►8. $H = \frac{10}{3} - \frac{3}{8}$

$$H = \frac{10 \times 8}{3 \times 8} - \frac{3 \times 3}{8 \times 3}$$

$$H = \frac{80}{24} - \frac{9}{24}$$

$$H = \frac{71}{24}$$

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).

►1. $A = 7,7 - \frac{9}{8}$

$$A = \frac{77 \times 4}{10 \times 4} - \frac{9 \times 5}{8 \times 5}$$

$$A = \frac{308}{40} - \frac{45}{40}$$

$$A = \frac{263}{40}$$

►2. $B = 1 - \frac{1}{7}$

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

$$B = \frac{7}{7} - \frac{1}{7}$$

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

►3. $C = \frac{2}{3} - \frac{7}{8}$

$$C = \frac{2 \times 8}{3 \times 8} - \frac{7 \times 3}{8 \times 3}$$

$$C = \frac{16}{24} - \frac{21}{24}$$

$$C = \frac{-5}{24}$$

►4. $D = \frac{9}{6} + 6$

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

$$D = \frac{9}{6} + \frac{36}{6}$$

$$D = \frac{45}{6}$$

$$D = \frac{15 \times \cancel{3}}{2 \times \cancel{3}}$$

$$D = \frac{15}{2}$$

►5. $E = \frac{4}{70} + \frac{9}{10}$

$$E = \frac{4}{70} + \frac{9 \times 7}{10 \times 7}$$

$$E = \frac{4}{70} + \frac{63}{70}$$

$$E = \frac{67}{70}$$

►6. $F = \frac{7}{8} - \frac{3}{8}$

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

$$F = \frac{1 \times \cancel{4}}{2 \times \cancel{4}}$$

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

►7. $G = \frac{7}{4} + \frac{7}{5}$

$$G = \frac{7 \times 5}{4 \times 5} + \frac{7 \times 4}{5 \times 4}$$

$$G = \frac{35}{20} + \frac{28}{20}$$

$$G = \frac{63}{20}$$

►8. $H = \frac{8}{7} + \frac{7}{9}$

$$H = \frac{8 \times 9}{7 \times 9} + \frac{7 \times 7}{9 \times 7}$$

$$H = \frac{72}{63} + \frac{49}{63}$$

$$H = \frac{121}{63}$$

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

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

$$A = \frac{30}{5} - \frac{6}{5}$$

$$A = \frac{24}{5}$$

►2. $B = \frac{7}{40} + \frac{10}{4}$

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

$$B = \frac{7}{40} + \frac{100}{40}$$

$$B = \frac{107}{40}$$

►3. $C = \frac{6}{2} - \frac{7}{7}$

$$C = \frac{6 \times 7}{2 \times 7} - \frac{7 \times 2}{7 \times 2}$$

$$C = \frac{42}{14} - \frac{14}{14}$$

$$C = \frac{28}{14}$$

$$C = \frac{2 \times \cancel{14}}{1 \times \cancel{14}}$$

$$C = 2$$

►4. $D = 1 - \frac{3}{9}$

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

$$D = \frac{9}{9} - \frac{3}{9}$$

$$D = \frac{6}{9}$$

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

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

►5. $E = \frac{9}{2} - \frac{2}{3}$

$$E = \frac{9 \times 3}{2 \times 3} - \frac{2 \times 2}{3 \times 2}$$

$$E = \frac{27}{6} - \frac{4}{6}$$

$$E = \frac{23}{6}$$

►6. $F = 5,4 - \frac{9}{9}$

$$F = \frac{54 \times 9}{10 \times 9} - \frac{9 \times 10}{9 \times 10}$$

$$F = \frac{486}{90} - \frac{90}{90}$$

$$F = \frac{396}{90}$$

$$F = \frac{22 \times \cancel{18}}{5 \times \cancel{18}}$$

$$F = \frac{22}{5}$$

►7. $G = \frac{5}{9} - \frac{1}{2}$

$$G = \frac{5 \times 2}{9 \times 2} - \frac{1 \times 9}{2 \times 9}$$

$$G = \frac{10}{18} - \frac{9}{18}$$

$$G = \frac{1}{18}$$

►8. $H = \frac{1}{8} + \frac{3}{8}$

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

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

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

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. $A = 6 - \frac{7}{8}$

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

$$A = \frac{48}{8} - \frac{7}{8}$$

$$A = \frac{41}{8}$$

►2. $B = 3,5 - \frac{6}{2}$

$$B = \frac{35}{10} - \frac{6 \times 5}{2 \times 5}$$

$$B = \frac{35}{10} - \frac{30}{10}$$

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

$$B = \frac{1 \times \cancel{5}}{2 \times \cancel{5}}$$

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

►3. $C = \frac{10}{10} + \frac{9}{10}$

$$C = \frac{19}{10}$$

►4. $D = \frac{9}{8} - \frac{9}{7}$

$$D = \frac{9 \times 7}{8 \times 7} - \frac{9 \times 8}{7 \times 8}$$

$$D = \frac{63}{56} - \frac{72}{56}$$

$$D = \frac{-9}{56}$$

►5. $E = \frac{7}{10} - \frac{8}{9}$

$$E = \frac{7 \times 9}{10 \times 9} - \frac{8 \times 10}{9 \times 10}$$

$$E = \frac{63}{90} - \frac{80}{90}$$

$$E = \frac{-17}{90}$$

►6. $F = \frac{2}{20} + \frac{10}{5}$

$$F = \frac{2}{20} + \frac{10 \times 4}{5 \times 4}$$

$$F = \frac{2}{20} + \frac{40}{20}$$

$$F = \frac{42}{20}$$

$$F = \frac{21 \times \cancel{2}}{10 \times \cancel{2}}$$

$$F = \frac{21}{10}$$

►7. $G = \frac{10}{7} - 1$

$$G = \frac{10}{7} - \frac{1 \times 7}{1 \times 7}$$

$$G = \frac{10}{7} - \frac{7}{7}$$

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

►8. $H = \frac{8}{3} - \frac{6}{10}$

$$H = \frac{8 \times 10}{3 \times 10} - \frac{6 \times 3}{10 \times 3}$$

$$H = \frac{80}{30} - \frac{18}{30}$$

$$H = \frac{62}{30}$$

$$H = \frac{31 \times \cancel{2}}{15 \times \cancel{2}}$$

$$H = \frac{31}{15}$$

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. $A = \frac{10}{5} - \frac{10}{45}$
 $A = \frac{10 \times 9}{5 \times 9} - \frac{10}{45}$
 $A = \frac{90}{45} - \frac{10}{45}$
 $A = \frac{80}{45}$
 $A = \frac{16 \times 5}{9 \times 5}$
 $A = \frac{16}{9}$

►2. $B = 7 - \frac{7}{5}$
 $B = \frac{7 \times 5}{1 \times 5} - \frac{7}{5}$
 $B = \frac{35}{5} - \frac{7}{5}$
 $B = \frac{28}{5}$

►3. $C = \frac{7}{4} + \frac{4}{5}$
 $C = \frac{7 \times 5}{4 \times 5} + \frac{4 \times 4}{5 \times 4}$
 $C = \frac{35}{20} + \frac{16}{20}$
 $C = \frac{51}{20}$

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

►5. $E = \frac{5}{6} - \frac{1}{5}$
 $E = \frac{5 \times 5}{6 \times 5} - \frac{1 \times 6}{5 \times 6}$
 $E = \frac{25}{30} - \frac{6}{30}$
 $E = \frac{19}{30}$

►6. $F = \frac{2}{7} + 6,4$
 $F = \frac{2 \times 10}{7 \times 10} + \frac{64 \times 7}{10 \times 7}$
 $F = \frac{20}{70} + \frac{448}{70}$
 $F = \frac{468}{70}$
 $F = \frac{234 \times 2}{35 \times 2}$
 $F = \frac{234}{35}$

►7. $G = \frac{7}{5} - \frac{2}{5}$
 $G = \frac{5}{5}$
 $G = 1$

►8. $H = \frac{4}{3} - \frac{7}{7}$
 $H = \frac{4 \times 7}{3 \times 7} - \frac{7 \times 3}{7 \times 3}$
 $H = \frac{28}{21} - \frac{21}{21}$
 $H = \frac{7}{21}$
 $H = \frac{1 \times 7}{3 \times 7}$
 $H = \frac{1}{3}$

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. $A = \frac{10}{5} + \frac{10}{4}$
 $A = \frac{10 \times 4}{5 \times 4} + \frac{10 \times 5}{4 \times 5}$
 $A = \frac{40}{20} + \frac{50}{20}$
 $A = \frac{90}{20}$
 $A = \frac{9 \times 10}{2 \times 10}$
 $A = \frac{9}{2}$

►2. $B = \frac{3}{8} + \frac{2}{8}$
 $B = \frac{5}{8}$

►3. $C = 2,2 - \frac{4}{3}$
 $C = \frac{22 \times 3}{10 \times 3} - \frac{4 \times 10}{3 \times 10}$

$C = \frac{66}{30} - \frac{40}{30}$
 $C = \frac{26}{30}$
 $C = \frac{13 \times 2}{15 \times 2}$
 $C = \frac{13}{15}$

►4. $D = \frac{9}{2} - \frac{10}{9}$
 $D = \frac{9 \times 9}{2 \times 9} - \frac{10 \times 2}{9 \times 2}$
 $D = \frac{81}{18} - \frac{20}{18}$
 $D = \frac{61}{18}$

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

$E = \frac{7}{10} + \frac{50}{10}$
 $E = \frac{57}{10}$

►6. $F = \frac{6}{6} - \frac{4}{8}$
 $F = \frac{6 \times 4}{6 \times 4} - \frac{4 \times 3}{8 \times 3}$
 $F = \frac{24}{24} - \frac{12}{24}$
 $F = \frac{12}{24}$
 $F = \frac{1 \times 12}{2 \times 12}$
 $F = \frac{1}{2}$

►7. $G = \frac{1}{36} + \frac{3}{4}$
 $G = \frac{1}{36} + \frac{3 \times 9}{4 \times 9}$

$G = \frac{1}{36} + \frac{27}{36}$
 $G = \frac{28}{36}$
 $G = \frac{7 \times 4}{9 \times 4}$
 $G = \frac{7}{9}$

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