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. $A = \frac{1}{16} + \frac{9}{4}$

$A = \frac{1}{16} + \frac{9_{\times 4}}{4_{\times 4}}$

$A = \frac{1}{16} + \frac{36}{16}$

$A = \frac{37}{16}$

▶2. $B = \frac{8}{3} + 6$

$B = \frac{8}{3} + \frac{6_{\times 3}}{1_{\times 3}}$

$B = \frac{8}{3} + \frac{18}{3}$

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

▶3. $C = \frac{9}{24} - \frac{3}{4}$

$C = \frac{9}{24} - \frac{3_{\times 6}}{4_{\times 6}}$

$C = \frac{9}{24} - \frac{18}{24}$

$C = \frac{-9}{24}$

$C = \frac{-3 \times \cancel{3}}{8 \times \cancel{3}}$

$C = \frac{-3}{8}$

▶4. $D = 1 - \frac{3}{7}$

$D = \frac{1_{\times 7}}{1_{\times 7}} - \frac{3}{7}$

$D = \frac{7}{7} - \frac{3}{7}$

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

▶5. $E = \frac{8}{7} - \frac{1}{49}$

$E = \frac{8_{\times 7}}{7_{\times 7}} - \frac{1}{49}$

$E = \frac{56}{49} - \frac{1}{49}$

$E = \frac{55}{49}$

▶6. $F = \frac{5}{8} + \frac{2}{8}$

$F = \frac{7}{8}$

▶7. $G = \frac{10}{8} + 5$

$G = \frac{10}{8} + \frac{5_{\times 8}}{1_{\times 8}}$

$G = \frac{10}{8} + \frac{40}{8}$

$G = \frac{50}{8}$

$G = \frac{25 \times \cancel{2}}{4 \times \cancel{2}}$

$G = \frac{25}{4}$

▶8. $H = 1 - \frac{5}{10}$

$H = \frac{1_{\times 10}}{1_{\times 10}} - \frac{5}{10}$

$H = \frac{10}{10} - \frac{5}{10}$

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

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

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

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. $A = \frac{10}{27} + \frac{1}{9}$

$A = \frac{10}{27} + \frac{1_{\times 3}}{9_{\times 3}}$

$A = \frac{10}{27} + \frac{3}{27}$

$A = \frac{13}{27}$

▶2. $B = \frac{7}{24} + \frac{1}{3}$

$B = \frac{7}{24} + \frac{1_{\times 8}}{3_{\times 8}}$

$B = \frac{7}{24} + \frac{8}{24}$

$B = \frac{15}{24}$

$B = \frac{5 \times \cancel{3}}{8 \times \cancel{3}}$

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

▶3. $C = 8 - \frac{10}{10}$

$C = \frac{8_{\times 10}}{1_{\times 10}} - \frac{10}{10}$

$C = \frac{80}{10} - \frac{10}{10}$

$C = \frac{70}{10}$

$C = \frac{7 \times \cancel{10}}{1 \times \cancel{10}}$

$C = 7$

▶4. $D = \frac{10}{5} + \frac{4}{5}$

$D = \frac{14}{5}$

▶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. $F = \frac{5}{2} - \frac{9}{10}$

$F = \frac{5_{\times 5}}{2_{\times 5}} - \frac{9}{10}$

$F = \frac{25}{10} - \frac{9}{10}$

$F = \frac{16}{10}$

$F = \frac{8 \times \cancel{2}}{5 \times \cancel{2}}$

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

▶7. $G = \frac{8}{4} - 1$

$G = \frac{8}{4} - \frac{1_{\times 4}}{1_{\times 4}}$

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

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

$G = 1$

▶8. $H = \frac{2}{10} + 7$

$H = \frac{2}{10} + \frac{7_{\times 10}}{1_{\times 10}}$

$H = \frac{2}{10} + \frac{70}{10}$

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

$H = \frac{36 \times \cancel{2}}{5 \times \cancel{2}}$

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

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. $A = 5 - \frac{8}{8}$

$A = \frac{5_{\times 8}}{1_{\times 8}} - \frac{8}{8}$

$A = \frac{40}{8} - \frac{8}{8}$

$A = \frac{32}{8}$

$A = \frac{4 \times \cancel{8}}{1 \times \cancel{8}}$

$A = 4$

▶2. $B = \frac{5}{50} + \frac{10}{10}$

$B = \frac{5}{50} + \frac{10_{\times 5}}{10_{\times 5}}$

$B = \frac{5}{50} + \frac{50}{50}$

$B = \frac{55}{50}$

$B = \frac{11 \times \cancel{5}}{10 \times \cancel{5}}$

$B = \frac{11}{10}$

▶3. $C = \frac{5}{10} + 5$

$C = \frac{5}{10} + \frac{5_{\times 10}}{1_{\times 10}}$

$C = \frac{5}{10} + \frac{50}{10}$

$C = \frac{55}{10}$

$C = \frac{11 \times \cancel{5}}{2 \times \cancel{5}}$

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

▶4. $D = \frac{9}{8} + 1$

$D = \frac{9}{8} + \frac{1_{\times 8}}{1_{\times 8}}$

$D = \frac{9}{8} + \frac{8}{8}$

$D = \frac{17}{8}$

▶5. $E = \frac{8}{18} + \frac{8}{9}$

$E = \frac{8}{18} + \frac{8_{\times 2}}{9_{\times 2}}$

$E = \frac{8}{18} + \frac{16}{18}$

$E = \frac{24}{18}$

$E = \frac{4 \times \cancel{6}}{3 \times \cancel{6}}$

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

▶6. $F = \frac{7}{3} - \frac{3}{3}$

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

▶7. $G = \frac{6}{18} - \frac{5}{9}$

$G = \frac{6}{18} - \frac{5_{\times 2}}{9_{\times 2}}$

$G = \frac{6}{18} - \frac{10}{18}$

$G = \frac{-4}{18}$

$G = \frac{-2 \times \cancel{2}}{9 \times \cancel{2}}$

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

▶8. $H = \frac{5}{7} + 1$

$H = \frac{5}{7} + \frac{1_{\times 7}}{1_{\times 7}}$

$H = \frac{5}{7} + \frac{7}{7}$

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

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. $A = \frac{5}{4} - 1$

$A = \frac{5}{4} - \frac{1_{\times 4}}{1_{\times 4}}$

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

$A = \frac{1}{4}$

▶2. $B = \frac{2}{7} + 4$

$B = \frac{2}{7} + \frac{4_{\times 7}}{1_{\times 7}}$

$B = \frac{2}{7} + \frac{28}{7}$

$B = \frac{30}{7}$

▶3. $C = \frac{9}{36} + \frac{9}{4}$

$C = \frac{9}{36} + \frac{9_{\times 9}}{4_{\times 9}}$

$C = \frac{9}{36} + \frac{81}{36}$

$C = \frac{90}{36}$

$C = \frac{5 \times \cancel{18}}{2 \times \cancel{18}}$

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

▶4. $D = \frac{8}{4} - \frac{8}{24}$

$D = \frac{8_{\times 6}}{4_{\times 6}} - \frac{8}{24}$

$D = \frac{48}{24} - \frac{8}{24}$

$D = \frac{40}{24}$

$D = \frac{5 \times \cancel{8}}{3 \times \cancel{8}}$

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

▶5. $E = \frac{2}{8} + \frac{2}{8}$

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

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

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

▶6. $F = 10 - \frac{2}{4}$

$F = \frac{10_{\times 4}}{1_{\times 4}} - \frac{2}{4}$

$F = \frac{40}{4} - \frac{2}{4}$

$F = \frac{38}{4}$

$F = \frac{19 \times \cancel{2}}{\cancel{2} \times 2}$

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

▶7. $G = \frac{6}{72} - \frac{7}{8}$

$G = \frac{6}{72} - \frac{7_{\times 9}}{8_{\times 9}}$

$G = \frac{6}{72} - \frac{63}{72}$

$G = \frac{-57}{72}$

$G = \frac{-19 \times \cancel{3}}{24 \times \cancel{3}}$

$G = \frac{-19}{24}$

▶8. $H = \frac{6}{5} + 1$

$H = \frac{6}{5} + \frac{1_{\times 5}}{1_{\times 5}}$

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

$H = \frac{11}{5}$

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. $A = \frac{10}{12} + \frac{2}{2}$

$A = \frac{10}{12} + \frac{2_{\times 6}}{2_{\times 6}}$

$A = \frac{10}{12} + \frac{12}{12}$

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

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

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

▶2. $B = \frac{7}{4} - \frac{6}{36}$

$B = \frac{7_{\times 9}}{4_{\times 9}} - \frac{6}{36}$

$B = \frac{63}{36} - \frac{6}{36}$

$B = \frac{57}{36}$

$B = \frac{19 \times \cancel{3}}{12 \times \cancel{3}}$

$B = \frac{19}{12}$

▶3. $C = 9 - \frac{2}{8}$

$C = \frac{9_{\times 8}}{1_{\times 8}} - \frac{2}{8}$

$C = \frac{72}{8} - \frac{2}{8}$

$C = \frac{70}{8}$

$C = \frac{35 \times \cancel{2}}{4 \times \cancel{2}}$

$C = \frac{35}{4}$

▶4. $D = \frac{8}{2} + 1$

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

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

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

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

$D = 5$

▶5. $E = \frac{9}{50} - \frac{2}{10}$

$E = \frac{9}{50} - \frac{2_{\times 5}}{10_{\times 5}}$

$E = \frac{9}{50} - \frac{10}{50}$

$E = \frac{-1}{50}$

▶6. $F = \frac{6}{6} + 10$

$F = \frac{6}{6} + \frac{10_{\times 6}}{1_{\times 6}}$

$F = \frac{6}{6} + \frac{60}{6}$

$F = \frac{66}{6}$

$F = \frac{11 \times \cancel{6}}{1 \times \cancel{6}}$

$F = 11$

▶7. $G = \frac{9}{6} + \frac{4}{6}$

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

▶8. $H = \frac{9}{8} + 1$

$H = \frac{9}{8} + \frac{1_{\times 8}}{1_{\times 8}}$

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

$H = \frac{17}{8}$

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. $A = \frac{8}{8} + 9$

$A = \frac{8}{8} + \frac{9_{\times 8}}{1_{\times 8}}$

$A = \frac{8}{8} + \frac{72}{8}$

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

$A = \frac{10 \times \cancel{8}}{1 \times \cancel{8}}$

$A = 10$

▶2. $B = \frac{9}{49} + \frac{5}{7}$

$B = \frac{9}{49} + \frac{5_{\times 7}}{7_{\times 7}}$

$B = \frac{9}{49} + \frac{35}{49}$

$B = \frac{44}{49}$

▶3. $C = \frac{8}{20} + \frac{8}{4}$

$C = \frac{8}{20} + \frac{8_{\times 5}}{4_{\times 5}}$

$C = \frac{8}{20} + \frac{40}{20}$

$C = \frac{48}{20}$

$C = \frac{12 \times \cancel{4}}{5 \times \cancel{4}}$

$C = \frac{12}{5}$

▶4. $D = \frac{1}{27} - \frac{1}{3}$

$D = \frac{1}{27} - \frac{1_{\times 9}}{3_{\times 9}}$

$D = \frac{1}{27} - \frac{9}{27}$

$D = \frac{-8}{27}$

▶5. $E = \frac{8}{5} + 1$

$E = \frac{8}{5} + \frac{1_{\times 5}}{1_{\times 5}}$

$E = \frac{8}{5} + \frac{5}{5}$

$E = \frac{13}{5}$

▶6. $F = \frac{8}{3} - \frac{6}{3}$

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

▶7. $G = \frac{4}{3} + 1$

$G = \frac{4}{3} + \frac{1_{\times 3}}{1_{\times 3}}$

$G = \frac{4}{3} + \frac{3}{3}$

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

▶8. $H = \frac{6}{9} + 4$

$H = \frac{6}{9} + \frac{4_{\times 9}}{1_{\times 9}}$

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

$H = \frac{42}{9}$

$H = \frac{14 \times \cancel{3}}{\cancel{3} \times 3}$

$H = \frac{14}{3}$