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. $A = \frac{9}{4} - \frac{4}{4}$

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

▶2. $B = \frac{4}{3} - 1$

$B = \frac{4}{3} - \frac{1_{\times 3}}{1_{\times 3}}$

$B = \frac{4}{3} - \frac{3}{3}$

$B = \frac{1}{3}$

▶3. $C = \frac{1}{27} - \frac{4}{9}$

$C = \frac{1}{27} - \frac{4_{\times 3}}{9_{\times 3}}$

$C = \frac{1}{27} - \frac{12}{27}$

$C = \frac{-11}{27}$

▶4. $D = \frac{7}{2} - \frac{3}{12}$

$D = \frac{7_{\times 6}}{2_{\times 6}} - \frac{3}{12}$

$D = \frac{42}{12} - \frac{3}{12}$

$D = \frac{39}{12}$

$D = \frac{13 \times \cancel{3}}{4 \times \cancel{3}}$

$D = \frac{13}{4}$

▶5. $E = \frac{9}{60} + \frac{8}{6}$

$E = \frac{9}{60} + \frac{8_{\times 10}}{6_{\times 10}}$

$E = \frac{9}{60} + \frac{80}{60}$

$E = \frac{89}{60}$

▶6. $F = \frac{9}{6} + 1$

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

$F = \frac{9}{6} + \frac{6}{6}$

$F = \frac{15}{6}$

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

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

▶7. $G = 3 - \frac{9}{9}$

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

$G = \frac{27}{9} - \frac{9}{9}$

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

$G = \frac{2 \times \cancel{9}}{1 \times \cancel{9}}$

$G = 2$

▶8. $H = 5 - \frac{3}{2}$

$H = \frac{5_{\times 2}}{1_{\times 2}} - \frac{3}{2}$

$H = \frac{10}{2} - \frac{3}{2}$

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

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. $A = \frac{9}{7} - \frac{5}{7}$

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

▶2. $B = \frac{4}{18} - \frac{2}{3}$

$B = \frac{4}{18} - \frac{2_{\times 6}}{3_{\times 6}}$

$B = \frac{4}{18} - \frac{12}{18}$

$B = \frac{-8}{18}$

$B = \frac{-4 \times \cancel{2}}{9 \times \cancel{2}}$

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

▶3. $C = 4 - \frac{1}{10}$

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

$C = \frac{40}{10} - \frac{1}{10}$

$C = \frac{39}{10}$

▶4. $D = \frac{8}{8} - \frac{9}{32}$

$D = \frac{8_{\times 4}}{8_{\times 4}} - \frac{9}{32}$

$D = \frac{32}{32} - \frac{9}{32}$

$D = \frac{23}{32}$

▶5. $E = \frac{2}{30} - \frac{1}{5}$

$E = \frac{2}{30} - \frac{1_{\times 6}}{5_{\times 6}}$

$E = \frac{2}{30} - \frac{6}{30}$

$E = \frac{-4}{30}$

$E = \frac{-2 \times \cancel{2}}{15 \times \cancel{2}}$

$E = \frac{-2}{15}$

▶6. $F = 2 - \frac{1}{7}$

$F = \frac{2_{\times 7}}{1_{\times 7}} - \frac{1}{7}$

$F = \frac{14}{7} - \frac{1}{7}$

$F = \frac{13}{7}$

▶7. $G = \frac{10}{5} - 1$

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

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

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

$G = 1$

▶8. $H = \frac{6}{9} + 1$

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

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

$H = \frac{15}{9}$

$H = \frac{5 \times \cancel{3}}{\cancel{3} \times 3}$

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

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. $A = \frac{2}{30} + \frac{8}{3}$

$A = \frac{2}{30} + \frac{8_{\times 10}}{3_{\times 10}}$

$A = \frac{2}{30} + \frac{80}{30}$

$A = \frac{82}{30}$

$A = \frac{41 \times \cancel{2}}{15 \times \cancel{2}}$

$A = \frac{41}{15}$

▶2. $B = \frac{7}{8} + \frac{4}{4}$

$B = \frac{7}{8} + \frac{4_{\times 2}}{4_{\times 2}}$

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

$B = \frac{15}{8}$

▶3. $C = \frac{8}{9} + 7$

$C = \frac{8}{9} + \frac{7_{\times 9}}{1_{\times 9}}$

$C = \frac{8}{9} + \frac{63}{9}$

$C = \frac{71}{9}$

▶4. $D = \frac{7}{7} - \frac{7}{7}$

$D = 0$

▶5. $E = \frac{7}{60} + \frac{4}{6}$

$E = \frac{7}{60} + \frac{4_{\times 10}}{6_{\times 10}}$

$E = \frac{7}{60} + \frac{40}{60}$

$E = \frac{47}{60}$

▶6. $F = \frac{1}{4} + 1$

$F = \frac{1}{4} + \frac{1_{\times 4}}{1_{\times 4}}$

$F = \frac{1}{4} + \frac{4}{4}$

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

▶7. $G = \frac{7}{6} + 7$

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

$G = \frac{7}{6} + \frac{42}{6}$

$G = \frac{49}{6}$

▶8. $H = \frac{3}{2} + 1$

$H = \frac{3}{2} + \frac{1_{\times 2}}{1_{\times 2}}$

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

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

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. $A = \frac{3}{3} - \frac{1}{3}$

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

▶2. $B = 7 - \frac{10}{5}$

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

$B = \frac{35}{5} - \frac{10}{5}$

$B = \frac{25}{5}$

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

$B = 5$

▶3. $C = \frac{10}{4} + 8$

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

$C = \frac{10}{4} + \frac{32}{4}$

$C = \frac{42}{4}$

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

$C = \frac{21}{2}$

▶4. $D = \frac{7}{54} - \frac{7}{9}$

$D = \frac{7}{54} - \frac{7_{\times 6}}{9_{\times 6}}$

$D = \frac{7}{54} - \frac{42}{54}$

$D = \frac{-35}{54}$

▶5. $E = 1 - \frac{2}{10}$

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

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

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

$E = \frac{4 \times \cancel{2}}{5 \times \cancel{2}}$

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

▶6. $F = \frac{9}{5} - \frac{9}{30}$

$F = \frac{9_{\times 6}}{5_{\times 6}} - \frac{9}{30}$

$F = \frac{54}{30} - \frac{9}{30}$

$F = \frac{45}{30}$

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

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

▶7. $G = 1 - \frac{5}{9}$

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

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

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

▶8. $H = \frac{7}{8} + \frac{10}{4}$

$H = \frac{7}{8} + \frac{10_{\times 2}}{4_{\times 2}}$

$H = \frac{7}{8} + \frac{20}{8}$

$H = \frac{27}{8}$

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. $A = 1 - \frac{1}{8}$

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

$A = \frac{8}{8} - \frac{1}{8}$

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

▶2. $B = \frac{2}{21} + \frac{9}{3}$

$B = \frac{2}{21} + \frac{9_{\times 7}}{3_{\times 7}}$

$B = \frac{2}{21} + \frac{63}{21}$

$B = \frac{65}{21}$

▶3. $C = \frac{6}{4} + 2$

$C = \frac{6}{4} + \frac{2_{\times 4}}{1_{\times 4}}$

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

$C = \frac{14}{4}$

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

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

▶4. $D = \frac{7}{2} + 7$

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

$D = \frac{7}{2} + \frac{14}{2}$

$D = \frac{21}{2}$

▶5. $E = \frac{5}{27} + \frac{8}{3}$

$E = \frac{5}{27} + \frac{8_{\times 9}}{3_{\times 9}}$

$E = \frac{5}{27} + \frac{72}{27}$

$E = \frac{77}{27}$

▶6. $F = \frac{2}{7} + 1$

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

$F = \frac{2}{7} + \frac{7}{7}$

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

▶7. $G = \frac{4}{4} - \frac{2}{40}$

$G = \frac{4_{\times 10}}{4_{\times 10}} - \frac{2}{40}$

$G = \frac{40}{40} - \frac{2}{40}$

$G = \frac{38}{40}$

$G = \frac{19 \times \cancel{2}}{20 \times \cancel{2}}$

$G = \frac{19}{20}$

▶8. $H = \frac{2}{7} + \frac{7}{7}$

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

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. $A = \frac{3}{40} - \frac{2}{5}$

$A = \frac{3}{40} - \frac{2_{\times 8}}{5_{\times 8}}$

$A = \frac{3}{40} - \frac{16}{40}$

$A = \frac{-13}{40}$

▶2. $B = \frac{1}{9} + 3$

$B = \frac{1}{9} + \frac{3_{\times 9}}{1_{\times 9}}$

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

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

▶3. $C = \frac{2}{8} + 7$

$C = \frac{2}{8} + \frac{7_{\times 8}}{1_{\times 8}}$

$C = \frac{2}{8} + \frac{56}{8}$

$C = \frac{58}{8}$

$C = \frac{29 \times \cancel{2}}{4 \times \cancel{2}}$

$C = \frac{29}{4}$

▶4. $D = 1 - \frac{1}{7}$

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

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

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

▶5. $E = \frac{5}{18} + \frac{9}{2}$

$E = \frac{5}{18} + \frac{9_{\times 9}}{2_{\times 9}}$

$E = \frac{5}{18} + \frac{81}{18}$

$E = \frac{86}{18}$

$E = \frac{43 \times \cancel{2}}{9 \times \cancel{2}}$

$E = \frac{43}{9}$

▶6. $F = 1 - \frac{5}{10}$

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

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

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

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

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

▶7. $G = \frac{6}{2} - \frac{5}{2}$

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

▶8. $H = \frac{6}{21} - \frac{6}{7}$

$H = \frac{6}{21} - \frac{6_{\times 3}}{7_{\times 3}}$

$H = \frac{6}{21} - \frac{18}{21}$

$H = \frac{-12}{21}$

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

$H = \frac{-4}{7}$