

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).

$$\blacktriangleright 1. A = 7 - \frac{3}{6}$$

$$A = \frac{7 \times 6}{1 \times 6} - \frac{3}{6}$$

$$A = \frac{42}{6} - \frac{3}{6}$$

$$A = \frac{39}{6}$$

$$A = \frac{13 \times \cancel{3}}{2 \times \cancel{3}}$$

$$A = \frac{13}{2}$$

$$\blacktriangleright 2. B = \frac{1}{40} - \frac{4}{8}$$

$$B = \frac{1}{40} - \frac{4 \times 5}{8 \times 5}$$

$$B = \frac{1}{40} - \frac{20}{40}$$

$$B = \frac{-19}{40}$$

$$\blacktriangleright 3. C = 1 - \frac{2}{9}$$

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

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

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

$$\blacktriangleright 4. D = \frac{9}{5} - \frac{3}{5}$$

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

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

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

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

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

$$\blacktriangleright 6. F = \frac{9}{70} + \frac{4}{7}$$

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

$$F = \frac{9}{70} + \frac{40}{70}$$

$$F = \frac{49}{70}$$

$$F = \frac{7 \times 7}{10 \times 7}$$

$$F = \frac{7}{10}$$

$$\blacktriangleright 7. G = \frac{3}{40} + \frac{3}{10}$$

$$G = \frac{3}{40} + \frac{3 \times 4}{10 \times 4}$$

$$G = \frac{3}{40} + \frac{12}{40}$$

$$G = \frac{15}{40}$$

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

$$G = \frac{3}{8}$$

$$\blacktriangleright 8. H = 5 - \frac{5}{2}$$

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

$$H = \frac{10}{2} - \frac{5}{2}$$

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

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).

$$\blacktriangleright 1. A = \frac{8}{6} - \frac{6}{60}$$

$$A = \frac{8 \times 10}{6 \times 10} - \frac{6}{60}$$

$$A = \frac{80}{60} - \frac{6}{60}$$

$$A = \frac{74}{60}$$

$$A = \frac{37 \times \cancel{2}}{30 \times \cancel{2}}$$

$$A = \frac{37}{30}$$

$$\blacktriangleright 2. B = 5 - \frac{5}{7}$$

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

$$B = \frac{35}{7} - \frac{5}{7}$$

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

$$\blacktriangleright 3. C = \frac{3}{60} - \frac{4}{6}$$

$$C = \frac{3}{60} - \frac{4 \times 10}{6 \times 10}$$

$$C = \frac{3}{60} - \frac{40}{60}$$

$$C = \frac{-37}{60}$$

$$\blacktriangleright 4. D = \frac{8}{7} - 1$$

$$D = \frac{8}{7} - \frac{1 \times 7}{1 \times 7}$$

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

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

$$\blacktriangleright 5. E = \frac{1}{7} + \frac{8}{7}$$

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

$$\blacktriangleright 6. F = \frac{7}{4} - \frac{5}{28}$$

$$F = \frac{7 \times 7}{4 \times 7} - \frac{5}{28}$$

$$F = \frac{49}{28} - \frac{5}{28}$$

$$F = \frac{44}{28}$$

$$F = \frac{11 \times \cancel{4}}{7 \times \cancel{4}}$$

$$F = \frac{11}{7}$$

$$\blacktriangleright 7. G = \frac{5}{2} + 1$$

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

$$G = \frac{5}{2} + \frac{2}{2}$$

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

$$\blacktriangleright 8. H = 7 - \frac{4}{7}$$

$$H = \frac{7 \times 7}{1 \times 7} - \frac{4}{7}$$

$$H = \frac{49}{7} - \frac{4}{7}$$

$$H = \frac{45}{7}$$

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. $A = \frac{7}{9} + 8$

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

$$A = \frac{7}{9} + \frac{72}{9}$$

$$A = \frac{79}{9}$$

►2. $B = 1 - \frac{4}{6}$

$$B = \frac{1 \times 6}{1 \times 6} - \frac{4}{6}$$

$$B = \frac{6}{6} - \frac{4}{6}$$

$$B = \frac{2}{6}$$

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

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

►3. $C = \frac{2}{2} - \frac{1}{6}$

$$C = \frac{2 \times 3}{2 \times 3} - \frac{1}{6}$$

$$C = \frac{6}{6} - \frac{1}{6}$$

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

►4. $D = \frac{6}{4} - \frac{6}{40}$

$$D = \frac{6 \times 10}{4 \times 10} - \frac{6}{40}$$

$$D = \frac{60}{40} - \frac{6}{40}$$

$$D = \frac{54}{40}$$

$$D = \frac{27 \times 2}{20 \times 2}$$

$$D = \frac{27}{20}$$

►5. $E = \frac{4}{4} + \frac{4}{4}$

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

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

$$E = 2$$

►6. $F = \frac{1}{15} + \frac{6}{5}$

$$F = \frac{1}{15} + \frac{6 \times 3}{5 \times 3}$$

$$F = \frac{1}{15} + \frac{18}{15}$$

$$F = \frac{19}{15}$$

►7. $G = \frac{4}{8} + 1$

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

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

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

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

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

►8. $H = \frac{2}{3} + 9$

$$H = \frac{2}{3} + \frac{9 \times 3}{1 \times 3}$$

$$H = \frac{2}{3} + \frac{27}{3}$$

$$H = \frac{29}{3}$$

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. $A = \frac{1}{5} + 2$

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

$$A = \frac{1}{5} + \frac{10}{5}$$

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

►2. $B = \frac{10}{35} + \frac{7}{7}$

$$B = \frac{10}{35} + \frac{7 \times 5}{7 \times 5}$$

$$B = \frac{10}{35} + \frac{35}{35}$$

$$B = \frac{45}{35}$$

$$B = \frac{9 \times 5}{7 \times 5}$$

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

►3. $C = \frac{1}{3} + \frac{9}{3}$

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

►4. $D = \frac{10}{36} + \frac{6}{4}$

$$D = \frac{10}{36} + \frac{6 \times 9}{4 \times 9}$$

$$D = \frac{10}{36} + \frac{54}{36}$$

$$D = \frac{64}{36}$$

$$D = \frac{16 \times 4}{9 \times 4}$$

$$D = \frac{16}{9}$$

►5. $E = \frac{9}{3} + 1$

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

$$E = \frac{9}{3} + \frac{3}{3}$$

$$E = \frac{12}{3}$$

$$E = \frac{4 \times 3}{1 \times 3}$$

$$E = 4$$

►6. $F = 1 - \frac{6}{9}$

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

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

$$F = \frac{3}{9}$$

$$F = \frac{1 \times 3}{3 \times 3}$$

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

►7. $G = \frac{7}{30} + \frac{6}{3}$

$$G = \frac{7}{30} + \frac{6 \times 10}{3 \times 10}$$

$$G = \frac{7}{30} + \frac{60}{30}$$

$$G = \frac{67}{30}$$

►8. $H = \frac{1}{4} + 4$

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

$$H = \frac{1}{4} + \frac{16}{4}$$

$$H = \frac{17}{4}$$

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).

$$\blacktriangleright 1. A = \frac{5}{28} + \frac{2}{7}$$

$$A = \frac{5}{28} + \frac{2 \times 4}{7 \times 4}$$

$$A = \frac{5}{28} + \frac{8}{28}$$

$$A = \frac{13}{28}$$

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

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

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

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

$$\blacktriangleright 3. C = \frac{6}{4} + 5$$

$$C = \frac{6}{4} + \frac{5 \times 4}{1 \times 4}$$

$$C = \frac{6}{4} + \frac{20}{4}$$

$$C = \frac{26}{4}$$

$$C = \frac{13 \times \cancel{2}}{\cancel{2} \times 2}$$

$$C = \frac{13}{2}$$

$$\blacktriangleright 4. D = \frac{3}{18} - \frac{5}{9}$$

$$D = \frac{3}{18} - \frac{5 \times 2}{9 \times 2}$$

$$D = \frac{3}{18} - \frac{10}{18}$$

$$D = \frac{-7}{18}$$

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

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

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

$$E = 0$$

$$\blacktriangleright 6. F = \frac{1}{4} - \frac{1}{4}$$

$$F = 0$$

$$\blacktriangleright 7. G = \frac{5}{48} + \frac{6}{6}$$

$$G = \frac{5}{48} + \frac{6 \times 8}{6 \times 8}$$

$$G = \frac{5}{48} + \frac{48}{48}$$

$$G = \frac{53}{48}$$

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

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

$$H = \frac{25}{5} - \frac{8}{5}$$

$$H = \frac{17}{5}$$

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).

$$\blacktriangleright 1. A = \frac{6}{40} + \frac{4}{4}$$

$$A = \frac{6}{40} + \frac{4 \times 10}{4 \times 10}$$

$$A = \frac{6}{40} + \frac{40}{40}$$

$$A = \frac{46}{40}$$

$$A = \frac{23 \times \cancel{2}}{20 \times \cancel{2}}$$

$$A = \frac{23}{20}$$

$$\blacktriangleright 2. B = \frac{5}{9} + \frac{6}{3}$$

$$B = \frac{5}{9} + \frac{6 \times 3}{3 \times 3}$$

$$B = \frac{5}{9} + \frac{18}{9}$$

$$B = \frac{23}{9}$$

$$\blacktriangleright 3. C = \frac{9}{5} + 1$$

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

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

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

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

$$D = \frac{4 \times 7}{1 \times 7} - \frac{4}{7}$$

$$D = \frac{28}{7} - \frac{4}{7}$$

$$D = \frac{24}{7}$$

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

$$E = \frac{3 \times 5}{1 \times 5} - \frac{4}{5}$$

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

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

$$\blacktriangleright 6. F = \frac{10}{4} + \frac{4}{4}$$

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

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

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

$$\blacktriangleright 7. G = \frac{9}{3} - \frac{6}{24}$$

$$G = \frac{9 \times 8}{3 \times 8} - \frac{6}{24}$$

$$G = \frac{72}{24} - \frac{6}{24}$$

$$G = \frac{66}{24}$$

$$G = \frac{11 \times \cancel{6}}{4 \times \cancel{6}}$$

$$G = \frac{11}{4}$$

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

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

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

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