

**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).

$$\blacktriangleright 1. A = \frac{4}{8} + \frac{5}{8}$$

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

$$\blacktriangleright 2. B = \frac{6}{3} - \frac{10}{21}$$

$$B = \frac{6 \times 7}{3 \times 7} - \frac{10}{21}$$

$$B = \frac{42}{21} - \frac{10}{21}$$

$$B = \frac{32}{21}$$

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

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

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

$$C = 0$$

$$\blacktriangleright 4. D = \frac{9}{2} + 9$$

$$D = \frac{9}{2} + \frac{9 \times 2}{1 \times 2}$$

$$D = \frac{9}{2} + \frac{18}{2}$$

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

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

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

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

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

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

$$F = \frac{4 \times 3}{1 \times 3} - \frac{6}{3}$$

$$F = \frac{12}{3} - \frac{6}{3}$$

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

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

$$F = 2$$

$$\blacktriangleright 7. G = \frac{8}{30} + \frac{9}{5}$$

$$G = \frac{8}{30} + \frac{9 \times 6}{5 \times 6}$$

$$G = \frac{8}{30} + \frac{54}{30}$$

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

$$G = \frac{31 \times 2}{15 \times 2}$$

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

$$\blacktriangleright 8. H = \frac{4}{20} + \frac{9}{5}$$

$$H = \frac{4}{20} + \frac{9 \times 4}{5 \times 4}$$

$$H = \frac{4}{20} + \frac{36}{20}$$

$$H = \frac{40}{20}$$

$$H = \frac{2 \times 20}{1 \times 20}$$

$$H = 2$$

**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).

$$\blacktriangleright 1. A = 3 - \frac{9}{7}$$

$$A = \frac{3 \times 7}{1 \times 7} - \frac{9}{7}$$

$$A = \frac{21}{7} - \frac{9}{7}$$

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

$$\blacktriangleright 2. B = \frac{4}{20} - \frac{9}{10}$$

$$B = \frac{4}{20} - \frac{9 \times 2}{10 \times 2}$$

$$B = \frac{4}{20} - \frac{18}{20}$$

$$B = \frac{-14}{20}$$

$$B = \frac{-7 \times 2}{10 \times 2}$$

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

$$\blacktriangleright 3. C = \frac{6}{18} - \frac{6}{9}$$

$$C = \frac{6}{18} - \frac{6 \times 2}{9 \times 2}$$

$$C = \frac{6}{18} - \frac{12}{18}$$

$$C = \frac{-6}{18}$$

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

$$C = \frac{-1}{3}$$

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

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

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

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

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

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

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

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

$$\blacktriangleright 6. F = \frac{2}{7} + \frac{4}{7}$$

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

$$\blacktriangleright 7. G = 8 - \frac{7}{5}$$

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

$$G = \frac{40}{5} - \frac{7}{5}$$

$$G = \frac{33}{5}$$

$$\blacktriangleright 8. H = \frac{10}{5} - \frac{8}{50}$$

$$H = \frac{10 \times 10}{5 \times 10} - \frac{8}{50}$$

$$H = \frac{100}{50} - \frac{8}{50}$$

$$H = \frac{92}{50}$$

$$H = \frac{46 \times 2}{25 \times 2}$$

$$H = \frac{46}{25}$$

**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).

$$\blacktriangleright 1. A = \frac{1}{63} - \frac{1}{9}$$

$$A = \frac{1}{63} - \frac{1 \times 7}{9 \times 7}$$

$$A = \frac{1}{63} - \frac{7}{63}$$

$$A = \frac{-6}{63}$$

$$A = \frac{-2 \times 3}{21 \times 3}$$

$$A = \frac{-2}{21}$$

$$\blacktriangleright 2. B = \frac{6}{10} + 5$$

$$B = \frac{6}{10} + \frac{5 \times 10}{1 \times 10}$$

$$B = \frac{6}{10} + \frac{50}{10}$$

$$B = \frac{56}{10}$$

$$B = \frac{28 \times 2}{5 \times 2}$$

$$B = \frac{28}{5}$$

$$\blacktriangleright 3. C = \frac{3}{72} + \frac{4}{9}$$

$$C = \frac{3}{72} + \frac{4 \times 8}{9 \times 8}$$

$$C = \frac{3}{72} + \frac{32}{72}$$

$$C = \frac{35}{72}$$

$$\blacktriangleright 4. D = \frac{9}{6} + \frac{6}{6}$$

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

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

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

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

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

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

$$E = \frac{17}{7}$$

$$\blacktriangleright 6. F = \frac{9}{7} + 5$$

$$F = \frac{9}{7} + \frac{5 \times 7}{1 \times 7}$$

$$F = \frac{9}{7} + \frac{35}{7}$$

$$F = \frac{44}{7}$$

$$\blacktriangleright 7. G = \frac{1}{90} + \frac{4}{9}$$

$$G = \frac{1}{90} + \frac{4 \times 10}{9 \times 10}$$

$$G = \frac{1}{90} + \frac{40}{90}$$

$$G = \frac{41}{90}$$

$$\blacktriangleright 8. H = 1 - \frac{5}{10}$$

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

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

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

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

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

### 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).

$$\blacktriangleright 1. A = \frac{1}{64} + \frac{4}{8}$$

$$A = \frac{1}{64} + \frac{4 \times 8}{8 \times 8}$$

$$A = \frac{1}{64} + \frac{32}{64}$$

$$A = \frac{33}{64}$$

$$\blacktriangleright 2. B = \frac{4}{5} + 1$$

$$B = \frac{4}{5} + \frac{1 \times 5}{1 \times 5}$$

$$B = \frac{4}{5} + \frac{5}{5}$$

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

$$\blacktriangleright 3. C = \frac{10}{3} - 1$$

$$C = \frac{10}{3} - \frac{1 \times 3}{1 \times 3}$$

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

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

$$\blacktriangleright 4. D = 10 - \frac{6}{8}$$

$$D = \frac{10 \times 8}{1 \times 8} - \frac{6}{8}$$

$$D = \frac{80}{8} - \frac{6}{8}$$

$$D = \frac{74}{8}$$

$$D = \frac{37 \times 2}{4 \times 2}$$

$$D = \frac{37}{4}$$

$$\blacktriangleright 5. E = \frac{10}{48} + \frac{5}{6}$$

$$E = \frac{10}{48} + \frac{5 \times 8}{6 \times 8}$$

$$E = \frac{10}{48} + \frac{40}{48}$$

$$E = \frac{50}{48}$$

$$E = \frac{25 \times 2}{24 \times 2}$$

$$E = \frac{25}{24}$$

$$\blacktriangleright 6. F = \frac{3}{36} + \frac{5}{9}$$

$$F = \frac{3}{36} + \frac{5 \times 4}{9 \times 4}$$

$$F = \frac{3}{36} + \frac{20}{36}$$

$$F = \frac{23}{36}$$

$$\blacktriangleright 7. G = 10 - \frac{3}{4}$$

$$G = \frac{10 \times 4}{1 \times 4} - \frac{3}{4}$$

$$G = \frac{40}{4} - \frac{3}{4}$$

$$G = \frac{37}{4}$$

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

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

### 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).

$$\blacktriangleright 1. A = \frac{2}{2} - \frac{8}{14}$$

$$A = \frac{2 \times 7}{2 \times 7} - \frac{8}{14}$$

$$A = \frac{14}{14} - \frac{8}{14}$$

$$A = \frac{6}{14}$$

$$A = \frac{3 \times \cancel{2}}{7 \times \cancel{2}}$$

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

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

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

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

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

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

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

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

$$C = \frac{3 \times 5}{1 \times 5} - \frac{6}{5}$$

$$C = \frac{15}{5} - \frac{6}{5}$$

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

$$\blacktriangleright 4. D = \frac{3}{6} + 1$$

$$D = \frac{3}{6} + \frac{1 \times 6}{1 \times 6}$$

$$D = \frac{3}{6} + \frac{6}{6}$$

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

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

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

$$\blacktriangleright 5. E = \frac{4}{72} + \frac{10}{8}$$

$$E = \frac{4}{72} + \frac{10 \times 9}{8 \times 9}$$

$$E = \frac{4}{72} + \frac{90}{72}$$

$$E = \frac{94}{72}$$

$$E = \frac{47 \times \cancel{2}}{36 \times \cancel{2}}$$

$$E = \frac{47}{36}$$

$$\blacktriangleright 6. F = \frac{6}{18} + \frac{10}{6}$$

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

$$F = \frac{6}{18} + \frac{30}{18}$$

$$F = \frac{36}{18}$$

$$F = \frac{2 \times \cancel{18}}{1 \times \cancel{18}}$$

$$F = 2$$

$$\blacktriangleright 7. G = \frac{1}{3} + \frac{1}{3}$$

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

$$\blacktriangleright 8. H = 7 - \frac{10}{8}$$

$$H = \frac{7 \times 8}{1 \times 8} - \frac{10}{8}$$

$$H = \frac{56}{8} - \frac{10}{8}$$

$$H = \frac{46}{8}$$

$$H = \frac{23 \times \cancel{2}}{4 \times \cancel{2}}$$

$$H = \frac{23}{4}$$

### 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).

$$\blacktriangleright 1. A = \frac{7}{18} + \frac{9}{3}$$

$$A = \frac{7}{18} + \frac{9 \times 6}{3 \times 6}$$

$$A = \frac{7}{18} + \frac{54}{18}$$

$$A = \frac{61}{18}$$

$$\blacktriangleright 2. B = \frac{3}{5} + 1$$

$$B = \frac{3}{5} + \frac{1 \times 5}{1 \times 5}$$

$$B = \frac{3}{5} + \frac{5}{5}$$

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

$$\blacktriangleright 3. C = \frac{3}{42} + \frac{7}{7}$$

$$C = \frac{3}{42} + \frac{7 \times 6}{7 \times 6}$$

$$C = \frac{3}{42} + \frac{42}{42}$$

$$C = \frac{45}{42}$$

$$C = \frac{15 \times \cancel{3}}{14 \times \cancel{3}}$$

$$C = \frac{15}{14}$$

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

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

$$D = \frac{4}{10} + \frac{10}{10}$$

$$D = \frac{14}{10}$$

$$D = \frac{7 \times \cancel{2}}{5 \times \cancel{2}}$$

$$D = \frac{7}{5}$$

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

$$E = \frac{5 \times 4}{2 \times 4} - \frac{2}{8}$$

$$E = \frac{20}{8} - \frac{2}{8}$$

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

$$E = \frac{9 \times \cancel{2}}{4 \times \cancel{2}}$$

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

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

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

$$F = \frac{2}{9} + \frac{27}{9}$$

$$F = \frac{29}{9}$$

$$\blacktriangleright 7. G = \frac{9}{8} - \frac{9}{8}$$

$$G = 0$$

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

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

$$H = \frac{2}{4} + \frac{16}{4}$$

$$H = \frac{18}{4}$$

$$H = \frac{9 \times \cancel{2}}{\cancel{2} \times 2}$$

$$H = \frac{9}{2}$$