

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).

$$\blacktriangleright 1. A = \frac{8}{6} + 4$$

$$A = \frac{8}{6} + \frac{4 \times 6}{1 \times 6}$$

$$A = \frac{8}{6} + \frac{24}{6}$$

$$A = \frac{32}{6}$$

$$A = \frac{16 \times \cancel{2}}{3 \times \cancel{2}}$$

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

$$\blacktriangleright 2. B = \frac{8}{90} + \frac{10}{10}$$

$$B = \frac{8}{90} + \frac{10 \times 9}{10 \times 9}$$

$$B = \frac{8}{90} + \frac{90}{90}$$

$$B = \frac{98}{90}$$

$$B = \frac{49 \times \cancel{2}}{45 \times \cancel{2}}$$

$$B = \frac{49}{45}$$

$$\blacktriangleright 3. C = \frac{10}{4} + 1$$

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

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

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

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

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

$$\blacktriangleright 4. D = \frac{7}{8} - \frac{2}{8}$$

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

$$\blacktriangleright 5. E = 7 - \frac{9}{8}$$

$$E = \frac{7 \times 8}{1 \times 8} - \frac{9}{8}$$

$$E = \frac{56}{8} - \frac{9}{8}$$

$$E = \frac{47}{8}$$

$$\blacktriangleright 6. F = \frac{9}{18} + \frac{8}{2}$$

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

$$F = \frac{9}{18} + \frac{72}{18}$$

$$F = \frac{81}{18}$$

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

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

$$\blacktriangleright 7. G = \frac{9}{10} + 1$$

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

$$G = \frac{9}{10} + \frac{10}{10}$$

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

$$\blacktriangleright 8. H = \frac{9}{6} - \frac{8}{60}$$

$$H = \frac{9 \times 10}{6 \times 10} - \frac{8}{60}$$

$$H = \frac{90}{60} - \frac{8}{60}$$

$$H = \frac{82}{60}$$

$$H = \frac{41 \times \cancel{2}}{30 \times \cancel{2}}$$

$$H = \frac{41}{30}$$

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).

$$\blacktriangleright 1. A = \frac{10}{2} - 1$$

$$A = \frac{10}{2} - \frac{1 \times 2}{1 \times 2}$$

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

$$A = \frac{8}{2}$$

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

$$A = 4$$

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

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

$$B = \frac{1}{4} + \frac{8}{4}$$

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

$$\blacktriangleright 3. C = \frac{2}{40} - \frac{6}{8}$$

$$C = \frac{2}{40} - \frac{6 \times 5}{8 \times 5}$$

$$C = \frac{2}{40} - \frac{30}{40}$$

$$C = \frac{-28}{40}$$

$$C = \frac{-7 \times \cancel{4}}{10 \times \cancel{4}}$$

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

$$\blacktriangleright 4. D = \frac{3}{70} - \frac{2}{10}$$

$$D = \frac{3}{70} - \frac{2 \times 7}{10 \times 7}$$

$$D = \frac{3}{70} - \frac{14}{70}$$

$$D = \frac{-11}{70}$$

$$\blacktriangleright 5. E = 1 - \frac{4}{6}$$

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

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

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

$$E = \frac{1 \times \cancel{2}}{3 \times \cancel{2}}$$

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

$$\blacktriangleright 6. F = 8 - \frac{8}{7}$$

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

$$F = \frac{56}{7} - \frac{8}{7}$$

$$F = \frac{48}{7}$$

$$\blacktriangleright 7. G = \frac{3}{64} + \frac{6}{8}$$

$$G = \frac{3}{64} + \frac{6 \times 8}{8 \times 8}$$

$$G = \frac{3}{64} + \frac{48}{64}$$

$$G = \frac{51}{64}$$

$$\blacktriangleright 8. H = \frac{3}{2} + \frac{8}{2}$$

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

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).

$$\blacktriangleright 1. A = \frac{10}{4} - \frac{2}{32}$$

$$A = \frac{10 \times 8}{4 \times 8} - \frac{2}{32}$$

$$A = \frac{80}{32} - \frac{2}{32}$$

$$A = \frac{78}{32}$$

$$A = \frac{39 \times 2}{16 \times 2}$$

$$A = \frac{39}{16}$$

$$\blacktriangleright 2. B = \frac{6}{8} + \frac{3}{4}$$

$$B = \frac{6}{8} + \frac{3 \times 2}{4 \times 2}$$

$$B = \frac{6}{8} + \frac{6}{8}$$

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

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

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

$$\blacktriangleright 3. C = \frac{10}{8} - \frac{4}{8}$$

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

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

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

$$\blacktriangleright 4. D = \frac{4}{9} + 10$$

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

$$D = \frac{4}{9} + \frac{90}{9}$$

$$D = \frac{94}{9}$$

$$\blacktriangleright 5. E = 8 - \frac{10}{7}$$

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

$$E = \frac{56}{7} - \frac{10}{7}$$

$$E = \frac{46}{7}$$

$$\blacktriangleright 6. F = \frac{10}{9} - 1$$

$$F = \frac{10}{9} - \frac{1 \times 9}{1 \times 9}$$

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

$$F = \frac{1}{9}$$

$$\blacktriangleright 7. G = \frac{7}{32} + \frac{2}{8}$$

$$G = \frac{7}{32} + \frac{2 \times 4}{8 \times 4}$$

$$G = \frac{7}{32} + \frac{8}{32}$$

$$G = \frac{15}{32}$$

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

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

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

$$H = \frac{15}{5}$$

$$H = \frac{3 \times 5}{1 \times 5}$$

$$H = 3$$

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).

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

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

$$A = \frac{24}{4} - \frac{1}{4}$$

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

$$\blacktriangleright 2. B = \frac{6}{12} + \frac{8}{3}$$

$$B = \frac{6}{12} + \frac{8 \times 4}{3 \times 4}$$

$$B = \frac{6}{12} + \frac{32}{12}$$

$$B = \frac{38}{12}$$

$$B = \frac{19 \times 2}{6 \times 2}$$

$$B = \frac{19}{6}$$

$$\blacktriangleright 3. C = 1 - \frac{4}{9}$$

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

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

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

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

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

$$\blacktriangleright 5. E = \frac{9}{5} - \frac{7}{20}$$

$$E = \frac{9 \times 4}{5 \times 4} - \frac{7}{20}$$

$$E = \frac{36}{20} - \frac{7}{20}$$

$$E = \frac{29}{20}$$

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

$$F = \frac{6}{36} - \frac{5 \times 4}{9 \times 4}$$

$$F = \frac{6}{36} - \frac{20}{36}$$

$$F = \frac{-14}{36}$$

$$F = \frac{-7 \times 2}{18 \times 2}$$

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

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

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

$$G = \frac{35}{5} - \frac{8}{5}$$

$$G = \frac{27}{5}$$

$$\blacktriangleright 8. H = \frac{9}{3} - 1$$

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

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

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

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

$$H = 2$$

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).

$$\blacktriangleright 1. A = \frac{4}{40} + \frac{10}{4}$$

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

$$A = \frac{4}{40} + \frac{100}{40}$$

$$A = \frac{104}{40}$$

$$A = \frac{13 \times 8}{5 \times 8}$$

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

$$\blacktriangleright 2. B = \frac{6}{5} - \frac{1}{5}$$

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

$$B = 1$$

$$\blacktriangleright 3. C = \frac{3}{12} - \frac{4}{6}$$

$$C = \frac{3}{12} - \frac{4 \times 2}{6 \times 2}$$

$$C = \frac{3}{12} - \frac{8}{12}$$

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

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

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

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

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

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

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

$$E = \frac{4}{2} + \frac{2}{2}$$

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

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

$$E = 3$$

$$\blacktriangleright 6. F = \frac{8}{7} + 9$$

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

$$F = \frac{8}{7} + \frac{63}{7}$$

$$F = \frac{71}{7}$$

$$\blacktriangleright 7. G = \frac{3}{7} + 5$$

$$G = \frac{3}{7} + \frac{5 \times 7}{1 \times 7}$$

$$G = \frac{3}{7} + \frac{35}{7}$$

$$G = \frac{38}{7}$$

$$\blacktriangleright 8. H = \frac{6}{60} + \frac{10}{10}$$

$$H = \frac{6}{60} + \frac{10 \times 6}{10 \times 6}$$

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

$$H = \frac{66}{60}$$

$$H = \frac{11 \times 6}{10 \times 6}$$

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

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).

$$\blacktriangleright 1. A = \frac{6}{3} - \frac{1}{21}$$

$$A = \frac{6 \times 7}{3 \times 7} - \frac{1}{21}$$

$$A = \frac{42}{21} - \frac{1}{21}$$

$$A = \frac{41}{21}$$

$$\blacktriangleright 2. B = \frac{10}{8} + 3$$

$$B = \frac{10}{8} + \frac{3 \times 8}{1 \times 8}$$

$$B = \frac{10}{8} + \frac{24}{8}$$

$$B = \frac{34}{8}$$

$$B = \frac{17 \times 2}{4 \times 2}$$

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

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

$$C = \frac{3}{7} + \frac{1 \times 7}{1 \times 7}$$

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

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

$$\blacktriangleright 4. D = \frac{7}{4} - \frac{5}{32}$$

$$D = \frac{7 \times 8}{4 \times 8} - \frac{5}{32}$$

$$D = \frac{56}{32} - \frac{5}{32}$$

$$D = \frac{51}{32}$$

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

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

$$\blacktriangleright 6. F = \frac{10}{12} - \frac{1}{3}$$

$$F = \frac{10}{12} - \frac{1 \times 4}{3 \times 4}$$

$$F = \frac{10}{12} - \frac{4}{12}$$

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

$$F = \frac{1 \times 6}{2 \times 6}$$

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

$$\blacktriangleright 7. G = \frac{5}{3} - 1$$

$$G = \frac{5}{3} - \frac{1 \times 3}{1 \times 3}$$

$$G = \frac{5}{3} - \frac{3}{3}$$

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

$$\blacktriangleright 8. H = \frac{6}{6} + 10$$

$$H = \frac{6}{6} + \frac{10 \times 6}{1 \times 6}$$

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

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

$$H = \frac{11 \times 6}{1 \times 6}$$

$$H = 11$$