

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).

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

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

$$A = \frac{7}{7} + \frac{56}{7}$$

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

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

$$A = 9$$

$$\blacktriangleright 2. B = \frac{7}{5} + 3$$

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

$$B = \frac{7}{5} + \frac{15}{5}$$

$$B = \frac{22}{5}$$

$$\blacktriangleright 3. C = \frac{9}{7} + \frac{7}{7}$$

$$C = \frac{16}{7}$$

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

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

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

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

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

$$D = 2$$

$$\blacktriangleright 5. E = \frac{8}{6} - \frac{6}{42}$$

$$E = \frac{8 \times 7}{6 \times 7} - \frac{6}{42}$$

$$E = \frac{56}{42} - \frac{6}{42}$$

$$E = \frac{50}{42}$$

$$E = \frac{25 \times 2}{21 \times 2}$$

$$E = \frac{25}{21}$$

$$\blacktriangleright 6. F = \frac{6}{70} - \frac{1}{10}$$

$$F = \frac{6}{70} - \frac{1 \times 7}{10 \times 7}$$

$$F = \frac{6}{70} - \frac{7}{70}$$

$$F = \frac{-1}{70}$$

$$\blacktriangleright 7. G = \frac{10}{12} + \frac{2}{6}$$

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

$$G = \frac{10}{12} + \frac{4}{12}$$

$$G = \frac{14}{12}$$

$$G = \frac{7 \times 2}{6 \times 2}$$

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

$$\blacktriangleright 8. H = \frac{5}{2} + 1$$

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

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

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

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).

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

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

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

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

$$\blacktriangleright 2. B = \frac{7}{3} - \frac{7}{30}$$

$$B = \frac{7 \times 10}{3 \times 10} - \frac{7}{30}$$

$$B = \frac{70}{30} - \frac{7}{30}$$

$$B = \frac{63}{30}$$

$$B = \frac{21 \times 3}{10 \times 3}$$

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

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

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

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

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

$$\blacktriangleright 4. D = \frac{3}{56} + \frac{2}{7}$$

$$D = \frac{3}{56} + \frac{2 \times 8}{7 \times 8}$$

$$D = \frac{3}{56} + \frac{16}{56}$$

$$D = \frac{19}{56}$$

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

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

$$E = \frac{72}{8} - \frac{8}{8}$$

$$E = \frac{64}{8}$$

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

$$E = 8$$

$$\blacktriangleright 6. F = \frac{4}{7} - \frac{1}{7}$$

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

$$\blacktriangleright 7. G = \frac{10}{32} + \frac{4}{8}$$

$$G = \frac{10}{32} + \frac{4 \times 4}{8 \times 4}$$

$$G = \frac{10}{32} + \frac{16}{32}$$

$$G = \frac{26}{32}$$

$$G = \frac{13 \times 2}{16 \times 2}$$

$$G = \frac{13}{16}$$

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

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

$$H = \frac{7}{4} + \frac{16}{4}$$

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

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).

$$\blacktriangleright 1. A = \frac{3}{3} - \frac{5}{12}$$

$$A = \frac{3 \times 4}{3 \times 4} - \frac{5}{12}$$

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

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

$$\blacktriangleright 2. B = \frac{9}{9} - \frac{7}{72}$$

$$B = \frac{9 \times 8}{9 \times 8} - \frac{7}{72}$$

$$B = \frac{72}{72} - \frac{7}{72}$$

$$B = \frac{65}{72}$$

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

$$C = \frac{6}{5} + \frac{2 \times 5}{1 \times 5}$$

$$C = \frac{6}{5} + \frac{10}{5}$$

$$C = \frac{16}{5}$$

$$\blacktriangleright 4. D = \frac{9}{4} - \frac{8}{4}$$

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

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

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

$$E = \frac{70}{10} - \frac{10}{10}$$

$$E = \frac{60}{10}$$

$$E = \frac{6 \times \cancel{10}}{1 \times \cancel{10}}$$

$$E = 6$$

$$\blacktriangleright 6. F = 1 - \frac{3}{9}$$

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

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

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

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

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

$$\blacktriangleright 7. G = \frac{3}{48} + \frac{1}{6}$$

$$G = \frac{3}{48} + \frac{1 \times 8}{6 \times 8}$$

$$G = \frac{3}{48} + \frac{8}{48}$$

$$G = \frac{11}{48}$$

$$\blacktriangleright 8. H = \frac{10}{4} + 1$$

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

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

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

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

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

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).

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

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

$$\blacktriangleright 2. B = \frac{8}{21} - \frac{4}{7}$$

$$B = \frac{8}{21} - \frac{4 \times 3}{7 \times 3}$$

$$B = \frac{8}{21} - \frac{12}{21}$$

$$B = \frac{-4}{21}$$

$$\blacktriangleright 3. C = \frac{7}{7} - \frac{8}{70}$$

$$C = \frac{7 \times 10}{7 \times 10} - \frac{8}{70}$$

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

$$C = \frac{62}{70}$$

$$C = \frac{31 \times \cancel{2}}{35 \times \cancel{2}}$$

$$C = \frac{31}{35}$$

$$\blacktriangleright 4. D = \frac{10}{2} + 1$$

$$D = \frac{10}{2} + \frac{1 \times 2}{1 \times 2}$$

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

$$D = \frac{12}{2}$$

$$D = \frac{6 \times \cancel{2}}{1 \times \cancel{2}}$$

$$D = 6$$

$$\blacktriangleright 5. E = \frac{9}{10} + 7$$

$$E = \frac{9}{10} + \frac{7 \times 10}{1 \times 10}$$

$$E = \frac{9}{10} + \frac{70}{10}$$

$$E = \frac{79}{10}$$

$$\blacktriangleright 6. F = \frac{7}{50} + \frac{6}{10}$$

$$F = \frac{7}{50} + \frac{6 \times 5}{10 \times 5}$$

$$F = \frac{7}{50} + \frac{30}{50}$$

$$F = \frac{37}{50}$$

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

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

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

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

$$\blacktriangleright 8. H = \frac{5}{4} + 7$$

$$H = \frac{5}{4} + \frac{7 \times 4}{1 \times 4}$$

$$H = \frac{5}{4} + \frac{28}{4}$$

$$H = \frac{33}{4}$$

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).

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

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

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

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

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

$$A = 2$$

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

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

$$B = \frac{8}{8} + \frac{56}{8}$$

$$B = \frac{64}{8}$$

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

$$B = 8$$

$$\blacktriangleright 3. C = \frac{10}{72} - \frac{4}{9}$$

$$C = \frac{10}{72} - \frac{4 \times 8}{9 \times 8}$$

$$C = \frac{10}{72} - \frac{32}{72}$$

$$C = \frac{-22}{72}$$

$$C = \frac{-11 \times 2}{36 \times 2}$$

$$C = \frac{-11}{36}$$

$$\blacktriangleright 4. D = \frac{6}{32} + \frac{7}{8}$$

$$D = \frac{6}{32} + \frac{7 \times 4}{8 \times 4}$$

$$D = \frac{6}{32} + \frac{28}{32}$$

$$D = \frac{34}{32}$$

$$D = \frac{17 \times 2}{16 \times 2}$$

$$D = \frac{17}{16}$$

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

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

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

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

$$\blacktriangleright 6. F = 7 - \frac{3}{8}$$

$$F = \frac{7 \times 8}{1 \times 8} - \frac{3}{8}$$

$$F = \frac{56}{8} - \frac{3}{8}$$

$$F = \frac{53}{8}$$

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

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

$$G = 1$$

$$\blacktriangleright 8. H = \frac{10}{100} + \frac{4}{10}$$

$$H = \frac{10}{100} + \frac{4 \times 10}{10 \times 10}$$

$$H = \frac{10}{100} + \frac{40}{100}$$

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

$$H = \frac{1 \times 50}{2 \times 50}$$

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

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).

$$\blacktriangleright 1. A = \frac{3}{10} + 9$$

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

$$A = \frac{3}{10} + \frac{90}{10}$$

$$A = \frac{93}{10}$$

$$\blacktriangleright 2. B = \frac{9}{6} - \frac{8}{42}$$

$$B = \frac{9 \times 7}{6 \times 7} - \frac{8}{42}$$

$$B = \frac{63}{42} - \frac{8}{42}$$

$$B = \frac{55}{42}$$

$$\blacktriangleright 3. C = 7 - \frac{5}{2}$$

$$C = \frac{7 \times 2}{1 \times 2} - \frac{5}{2}$$

$$C = \frac{14}{2} - \frac{5}{2}$$

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

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

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

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

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

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

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

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

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

$$\blacktriangleright 6. F = \frac{4}{15} + \frac{6}{3}$$

$$F = \frac{4}{15} + \frac{6 \times 5}{3 \times 5}$$

$$F = \frac{4}{15} + \frac{30}{15}$$

$$F = \frac{34}{15}$$

$$\blacktriangleright 7. G = \frac{5}{6} + 1$$

$$G = \frac{5}{6} + \frac{1 \times 6}{1 \times 6}$$

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

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

$$\blacktriangleright 8. H = \frac{4}{24} + \frac{6}{8}$$

$$H = \frac{4}{24} + \frac{6 \times 3}{8 \times 3}$$

$$H = \frac{4}{24} + \frac{18}{24}$$

$$H = \frac{22}{24}$$

$$H = \frac{11 \times 2}{12 \times 2}$$

$$H = \frac{11}{12}$$