

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).

$$\blacktriangleright 1. A = \frac{3}{36} - \frac{3}{9}$$

$$A = \frac{3}{36} - \frac{3 \times 4}{9 \times 4}$$

$$A = \frac{3}{36} - \frac{12}{36}$$

$$A = \frac{-9}{36}$$

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

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

$$\blacktriangleright 2. B = 7 - \frac{10}{10}$$

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

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

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

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

$$B = 6$$

$$\blacktriangleright 3. C = \frac{4}{27} + \frac{1}{3}$$

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

$$C = \frac{4}{27} + \frac{9}{27}$$

$$C = \frac{13}{27}$$

$$\blacktriangleright 4. D = \frac{10}{35} + \frac{9}{7}$$

$$D = \frac{10}{35} + \frac{9 \times 5}{7 \times 5}$$

$$D = \frac{10}{35} + \frac{45}{35}$$

$$D = \frac{55}{35}$$

$$D = \frac{11 \times \cancel{5}}{7 \times \cancel{5}}$$

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

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

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

$$E = 1$$

$$\blacktriangleright 6. F = 1 - \frac{2}{4}$$

$$F = \frac{1 \times 4}{1 \times 4} - \frac{2}{4}$$

$$F = \frac{4}{4} - \frac{2}{4}$$

$$F = \frac{2}{4}$$

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

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

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

$$G = \frac{9}{4} + \frac{7 \times 4}{1 \times 4}$$

$$G = \frac{9}{4} + \frac{28}{4}$$

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

$$\blacktriangleright 8. H = \frac{6}{4} - 1$$

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

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

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

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

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

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).

$$\blacktriangleright 1. A = \frac{1}{8} + 3$$

$$A = \frac{1}{8} + \frac{3 \times 8}{1 \times 8}$$

$$A = \frac{1}{8} + \frac{24}{8}$$

$$A = \frac{25}{8}$$

$$\blacktriangleright 2. B = \frac{9}{28} + \frac{9}{7}$$

$$B = \frac{9}{28} + \frac{9 \times 4}{7 \times 4}$$

$$B = \frac{9}{28} + \frac{36}{28}$$

$$B = \frac{45}{28}$$

$$\blacktriangleright 3. C = \frac{5}{15} - \frac{2}{3}$$

$$C = \frac{5}{15} - \frac{2 \times 5}{3 \times 5}$$

$$C = \frac{5}{15} - \frac{10}{15}$$

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

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

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

$$\blacktriangleright 4. D = \frac{6}{5} + 1$$

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

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

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

$$\blacktriangleright 5. E = \frac{4}{7} + 1$$

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

$$E = \frac{4}{7} + \frac{7}{7}$$

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

$$\blacktriangleright 6. F = \frac{1}{40} - \frac{5}{10}$$

$$F = \frac{1}{40} - \frac{5 \times 4}{10 \times 4}$$

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

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

$$\blacktriangleright 7. G = \frac{9}{10} + \frac{8}{10}$$

$$G = \frac{17}{10}$$

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

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

$$H = \frac{64}{8} - \frac{1}{8}$$

$$H = \frac{63}{8}$$

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).

$$\blacktriangleright 1. A = \frac{5}{8} + 3$$

$$A = \frac{5}{8} + \frac{3 \times 8}{1 \times 8}$$

$$A = \frac{5}{8} + \frac{24}{8}$$

$$A = \frac{29}{8}$$

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

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

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

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

$$\blacktriangleright 3. C = \frac{8}{4} - \frac{4}{36}$$

$$C = \frac{8 \times 9}{4 \times 9} - \frac{4}{36}$$

$$C = \frac{72}{36} - \frac{4}{36}$$

$$C = \frac{68}{36}$$

$$C = \frac{17 \times 4}{9 \times 4}$$

$$C = \frac{17}{9}$$

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

$$D = \frac{6}{4}$$

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

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

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

$$E = \frac{5}{36} + \frac{6 \times 4}{9 \times 4}$$

$$E = \frac{5}{36} + \frac{24}{36}$$

$$E = \frac{29}{36}$$

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

$$F = \frac{6}{2} + \frac{10 \times 2}{1 \times 2}$$

$$F = \frac{6}{2} + \frac{20}{2}$$

$$F = \frac{26}{2}$$

$$F = \frac{13 \times 2}{1 \times 2}$$

$$F = 13$$

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

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

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

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

$$\blacktriangleright 8. H = \frac{6}{32} + \frac{9}{8}$$

$$H = \frac{6}{32} + \frac{9 \times 4}{8 \times 4}$$

$$H = \frac{6}{32} + \frac{36}{32}$$

$$H = \frac{42}{32}$$

$$H = \frac{21 \times 2}{16 \times 2}$$

$$H = \frac{21}{16}$$

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).

$$\blacktriangleright 1. A = \frac{6}{10} + \frac{8}{10}$$

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

$$A = \frac{7 \times 2}{5 \times 2}$$

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

$$\blacktriangleright 2. B = \frac{7}{6} + \frac{10}{3}$$

$$B = \frac{7}{6} + \frac{10 \times 2}{3 \times 2}$$

$$B = \frac{7}{6} + \frac{20}{6}$$

$$B = \frac{27}{6}$$

$$B = \frac{9 \times 3}{2 \times 3}$$

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

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

$$C = \frac{10}{8} + \frac{10 \times 4}{2 \times 4}$$

$$C = \frac{10}{8} + \frac{40}{8}$$

$$C = \frac{50}{8}$$

$$C = \frac{25 \times 2}{4 \times 2}$$

$$C = \frac{25}{4}$$

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

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

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

$$D = 0$$

$$\blacktriangleright 5. E = \frac{9}{30} + \frac{3}{3}$$

$$E = \frac{9}{30} + \frac{3 \times 10}{3 \times 10}$$

$$E = \frac{9}{30} + \frac{30}{30}$$

$$E = \frac{39}{30}$$

$$E = \frac{13 \times 3}{10 \times 3}$$

$$E = \frac{13}{10}$$

$$\blacktriangleright 6. F = 3 - \frac{5}{2}$$

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

$$F = \frac{6}{2} - \frac{5}{2}$$

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

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

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

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

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

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

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

$$H = \frac{5}{5} + \frac{40}{5}$$

$$H = \frac{45}{5}$$

$$H = \frac{9 \times 5}{1 \times 5}$$

$$H = 9$$

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).

$$\blacktriangleright 1. A = \frac{1}{20} - \frac{2}{10}$$

$$A = \frac{1}{20} - \frac{2 \times 2}{10 \times 2}$$

$$A = \frac{1}{20} - \frac{4}{20}$$

$$A = \frac{-3}{20}$$

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

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

$$B = \frac{36}{6} - \frac{6}{6}$$

$$B = \frac{30}{6}$$

$$B = \frac{5 \times \cancel{6}}{1 \times \cancel{6}}$$

$$B = 5$$

$$\blacktriangleright 3. C = \frac{10}{2} - \frac{5}{14}$$

$$C = \frac{10 \times 7}{2 \times 7} - \frac{5}{14}$$

$$C = \frac{70}{14} - \frac{5}{14}$$

$$C = \frac{65}{14}$$

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

$$D = \frac{5}{5} - \frac{1 \times 5}{1 \times 5}$$

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

$$D = 0$$

$$\blacktriangleright 5. E = \frac{2}{8} + \frac{10}{2}$$

$$E = \frac{2}{8} + \frac{10 \times 4}{2 \times 4}$$

$$E = \frac{2}{8} + \frac{40}{8}$$

$$E = \frac{42}{8}$$

$$E = \frac{21 \times \cancel{2}}{4 \times \cancel{2}}$$

$$E = \frac{21}{4}$$

$$\blacktriangleright 6. F = \frac{5}{9} + 8$$

$$F = \frac{5}{9} + \frac{8 \times 9}{1 \times 9}$$

$$F = \frac{5}{9} + \frac{72}{9}$$

$$F = \frac{77}{9}$$

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

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

$$G = \frac{1}{3} + \frac{3}{3}$$

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

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

$$H = \frac{9}{10}$$

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).

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

$$A = \frac{6}{2} - \frac{1 \times 2}{1 \times 2}$$

$$A = \frac{6}{2} - \frac{2}{2}$$

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

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

$$A = 2$$

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

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

$$\blacktriangleright 3. C = \frac{8}{32} + \frac{4}{8}$$

$$C = \frac{8}{32} + \frac{4 \times 4}{8 \times 4}$$

$$C = \frac{8}{32} + \frac{16}{32}$$

$$C = \frac{24}{32}$$

$$C = \frac{3 \times \cancel{8}}{4 \times \cancel{8}}$$

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

$$\blacktriangleright 4. D = \frac{6}{56} - \frac{1}{8}$$

$$D = \frac{6}{56} - \frac{1 \times 7}{8 \times 7}$$

$$D = \frac{6}{56} - \frac{7}{56}$$

$$D = \frac{-1}{56}$$

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

$$E = \frac{6 \times 4}{1 \times 4} - \frac{7}{4}$$

$$E = \frac{24}{4} - \frac{7}{4}$$

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

$$\blacktriangleright 6. F = \frac{4}{60} + \frac{9}{6}$$

$$F = \frac{4}{60} + \frac{9 \times 10}{6 \times 10}$$

$$F = \frac{4}{60} + \frac{90}{60}$$

$$F = \frac{94}{60}$$

$$F = \frac{47 \times \cancel{2}}{30 \times \cancel{2}}$$

$$F = \frac{47}{30}$$

$$\blacktriangleright 7. G = 9 - \frac{5}{6}$$

$$G = \frac{9 \times 6}{1 \times 6} - \frac{5}{6}$$

$$G = \frac{54}{6} - \frac{5}{6}$$

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

$$\blacktriangleright 8. H = \frac{9}{4} + 1$$

$$H = \frac{9}{4} + \frac{1 \times 4}{1 \times 4}$$

$$H = \frac{9}{4} + \frac{4}{4}$$

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