

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).

$$\blacktriangleright 1. A = \frac{3}{21} + \frac{9}{7}$$

$$A = \frac{3}{21} + \frac{9 \times 3}{7 \times 3}$$

$$A = \frac{3}{21} + \frac{27}{21}$$

$$A = \frac{30}{21}$$

$$A = \frac{10 \times \cancel{3}}{7 \times \cancel{3}}$$

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

$$\blacktriangleright 2. B = 1 - \frac{5}{9}$$

$$B = \frac{1 \times 9}{1 \times 9} - \frac{5}{9}$$

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

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

$$\blacktriangleright 3. C = \frac{2}{21} + \frac{4}{7}$$

$$C = \frac{2}{21} + \frac{4 \times 3}{7 \times 3}$$

$$C = \frac{2}{21} + \frac{12}{21}$$

$$C = \frac{14}{21}$$

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

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

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

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

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

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

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

$$E = \frac{3 \times 7}{1 \times 7} - \frac{2}{7}$$

$$E = \frac{21}{7} - \frac{2}{7}$$

$$E = \frac{19}{7}$$

$$\blacktriangleright 6. F = 10 - \frac{7}{3}$$

$$F = \frac{10 \times 3}{1 \times 3} - \frac{7}{3}$$

$$F = \frac{30}{3} - \frac{7}{3}$$

$$F = \frac{23}{3}$$

$$\blacktriangleright 7. G = \frac{7}{5} - \frac{1}{25}$$

$$G = \frac{7 \times 5}{5 \times 5} - \frac{1}{25}$$

$$G = \frac{35}{25} - \frac{1}{25}$$

$$G = \frac{34}{25}$$

$$\blacktriangleright 8. H = \frac{7}{5} - \frac{3}{5}$$

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

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).

$$\blacktriangleright 1. A = \frac{4}{20} - \frac{1}{2}$$

$$A = \frac{4}{20} - \frac{1 \times 10}{2 \times 10}$$

$$A = \frac{4}{20} - \frac{10}{20}$$

$$A = \frac{-6}{20}$$

$$A = \frac{-3 \times \cancel{2}}{10 \times \cancel{2}}$$

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

$$\blacktriangleright 2. B = \frac{10}{9} + 1$$

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

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

$$B = \frac{19}{9}$$

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

$$C = \frac{8}{8} + \frac{10 \times 8}{1 \times 8}$$

$$C = \frac{8}{8} + \frac{80}{8}$$

$$C = \frac{88}{8}$$

$$C = \frac{11 \times \cancel{8}}{1 \times \cancel{8}}$$

$$C = 11$$

$$\blacktriangleright 4. D = \frac{10}{80} + \frac{9}{8}$$

$$D = \frac{10}{80} + \frac{9 \times 10}{8 \times 10}$$

$$D = \frac{10}{80} + \frac{90}{80}$$

$$D = \frac{100}{80}$$

$$D = \frac{5 \times \cancel{20}}{4 \times \cancel{20}}$$

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

$$\blacktriangleright 5. E = \frac{4}{10} - \frac{1}{10}$$

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

$$\blacktriangleright 6. F = \frac{10}{3} - \frac{3}{24}$$

$$F = \frac{10 \times 8}{3 \times 8} - \frac{3}{24}$$

$$F = \frac{80}{24} - \frac{3}{24}$$

$$F = \frac{77}{24}$$

$$\blacktriangleright 7. G = \frac{1}{10} + 2$$

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

$$G = \frac{1}{10} + \frac{20}{10}$$

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

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

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

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

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

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).

$$\begin{aligned} \text{►1. } A &= \frac{3}{3} - 1 \\ A &= \frac{3}{3} - \frac{1 \times 3}{1 \times 3} \\ A &= \frac{3}{3} - \frac{3}{3} \\ A &= 0 \\ \text{►2. } B &= \frac{8}{3} + 1 \\ B &= \frac{8}{3} + \frac{1 \times 3}{1 \times 3} \\ B &= \frac{8}{3} + \frac{3}{3} \\ B &= \frac{11}{3} \end{aligned}$$

$$\begin{aligned} \text{►3. } C &= \frac{4}{4} - \frac{1}{4} \\ C &= \frac{3}{4} \\ \text{►4. } D &= \frac{5}{45} + \frac{8}{5} \\ D &= \frac{5}{45} + \frac{8 \times 9}{5 \times 9} \\ D &= \frac{5}{45} + \frac{72}{45} \\ D &= \frac{77}{45} \\ \text{►5. } E &= \frac{9}{8} + \frac{9}{4} \\ E &= \frac{9}{8} + \frac{9 \times 2}{4 \times 2} \end{aligned}$$

$$\begin{aligned} E &= \frac{9}{8} + \frac{18}{8} \\ E &= \frac{27}{8} \\ \text{►6. } F &= \frac{5}{40} - \frac{3}{10} \\ F &= \frac{5}{40} - \frac{3 \times 4}{10 \times 4} \\ F &= \frac{5}{40} - \frac{12}{40} \\ F &= \frac{-7}{40} \\ \text{►7. } G &= \frac{9}{10} + 4 \\ G &= \frac{9}{10} + \frac{4 \times 10}{1 \times 10} \end{aligned}$$

$$\begin{aligned} G &= \frac{9}{10} + \frac{40}{10} \\ G &= \frac{49}{10} \\ \text{►8. } H &= 7 - \frac{7}{5} \\ H &= \frac{7 \times 5}{1 \times 5} - \frac{7}{5} \\ H &= \frac{35}{5} - \frac{7}{5} \\ H &= \frac{28}{5} \end{aligned}$$

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).

$$\begin{aligned} \text{►1. } A &= \frac{8}{7} + 9 \\ A &= \frac{8}{7} + \frac{9 \times 7}{1 \times 7} \\ A &= \frac{8}{7} + \frac{63}{7} \\ A &= \frac{71}{7} \\ \text{►2. } B &= \frac{8}{3} - \frac{7}{18} \\ B &= \frac{8 \times 6}{3 \times 6} - \frac{7}{18} \\ B &= \frac{48}{18} - \frac{7}{18} \\ B &= \frac{41}{18} \\ \text{►3. } C &= 1 - \frac{1}{5} \\ C &= \frac{1 \times 5}{1 \times 5} - \frac{1}{5} \end{aligned}$$

$$\begin{aligned} C &= \frac{5}{5} - \frac{1}{5} \\ C &= \frac{4}{5} \\ \text{►4. } D &= 1 - \frac{6}{10} \\ D &= \frac{1 \times 10}{1 \times 10} - \frac{6}{10} \\ D &= \frac{10}{10} - \frac{6}{10} \\ D &= \frac{4}{10} \\ D &= \frac{\cancel{2} \times 2}{5 \times \cancel{2}} \\ D &= \frac{2}{5} \\ \text{►5. } E &= \frac{4}{5} + \frac{1}{5} \\ E &= \frac{5}{5} \end{aligned}$$

$$\begin{aligned} E &= 1 \\ \text{►6. } F &= \frac{2}{8} + 2 \\ F &= \frac{2}{8} + \frac{2 \times 8}{1 \times 8} \\ F &= \frac{2}{8} + \frac{16}{8} \\ F &= \frac{18}{8} \\ F &= \frac{9 \times \cancel{2}}{4 \times \cancel{2}} \\ F &= \frac{9}{4} \\ \text{►7. } G &= \frac{9}{4} - \frac{4}{24} \\ G &= \frac{9 \times 6}{4 \times 6} - \frac{4}{24} \\ G &= \frac{54}{24} - \frac{4}{24} \end{aligned}$$

$$\begin{aligned} G &= \frac{50}{24} \\ G &= \frac{25 \times \cancel{2}}{12 \times \cancel{2}} \\ G &= \frac{25}{12} \\ \text{►8. } H &= \frac{4}{28} - \frac{1}{7} \\ H &= \frac{4}{28} - \frac{1 \times 4}{7 \times 4} \\ H &= \frac{4}{28} - \frac{4}{28} \\ H &= 0 \end{aligned}$$

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).

$$\begin{aligned} \text{►1. } A &= \frac{5}{6} + 1 \\ A &= \frac{5}{6} + \frac{1 \times 6}{1 \times 6} \end{aligned}$$

$$\begin{aligned} A &= \frac{5}{6} + \frac{6}{6} \\ A &= \frac{11}{6} \end{aligned}$$

$$\begin{aligned} \text{►2. } B &= \frac{3}{45} + \frac{5}{5} \\ B &= \frac{3}{45} + \frac{5 \times 9}{5 \times 9} \end{aligned}$$

$$\begin{aligned} B &= \frac{3}{45} + \frac{45}{45} \\ B &= \frac{48}{45} \end{aligned}$$

$B = \frac{16 \times \cancel{3}}{15 \times \cancel{3}}$ $B = \frac{16}{15}$ <p>►3. $C = \frac{4}{36} - \frac{2}{6}$</p> $C = \frac{4}{36} - \frac{2 \times 6}{6 \times 6}$ $C = \frac{4}{36} - \frac{12}{36}$ $C = \frac{-8}{36}$ $C = \frac{-2 \times \cancel{4}}{9 \times \cancel{4}}$	$C = \frac{-2}{9}$ <p>►4. $D = \frac{7}{10} + 7$</p> $D = \frac{7}{10} + \frac{7 \times 10}{1 \times 10}$ $D = \frac{7}{10} + \frac{70}{10}$ $D = \frac{77}{10}$ <p>►5. $E = \frac{2}{9} + \frac{3}{9}$</p> $E = \frac{5}{9}$	<p>►6. $F = 8 - \frac{1}{4}$</p> $F = \frac{8 \times 4}{1 \times 4} - \frac{1}{4}$ $F = \frac{32}{4} - \frac{1}{4}$ $F = \frac{31}{4}$ <p>►7. $G = \frac{10}{6} - \frac{10}{18}$</p> $G = \frac{10 \times 3}{6 \times 3} - \frac{10}{18}$ $G = \frac{30}{18} - \frac{10}{18}$	$G = \frac{20}{18}$ $G = \frac{10 \times \cancel{2}}{9 \times \cancel{2}}$ $G = \frac{10}{9}$ <p>►8. $H = \frac{1}{9} + 1$</p> $H = \frac{1}{9} + \frac{1 \times 9}{1 \times 9}$ $H = \frac{1}{9} + \frac{9}{9}$ $H = \frac{10}{9}$
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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).

<p>►1. $A = \frac{3}{40} - \frac{6}{8}$</p> $A = \frac{3}{40} - \frac{6 \times 5}{8 \times 5}$ $A = \frac{3}{40} - \frac{30}{40}$ $A = \frac{-27}{40}$ <p>►2. $B = \frac{10}{4} + 1$</p> $B = \frac{10}{4} + \frac{1 \times 4}{1 \times 4}$ $B = \frac{10}{4} + \frac{4}{4}$ $B = \frac{14}{4}$ $B = \frac{7 \times \cancel{2}}{\cancel{2} \times 2}$	$B = \frac{7}{2}$ <p>►3. $C = \frac{6}{2} + \frac{2}{2}$</p> $C = \frac{8}{2}$ $C = \frac{4 \times \cancel{2}}{1 \times \cancel{2}}$ $C = 4$ <p>►4. $D = \frac{6}{27} + \frac{8}{9}$</p> $D = \frac{6}{27} + \frac{8 \times 3}{9 \times 3}$ $D = \frac{6}{27} + \frac{24}{27}$ $D = \frac{30}{27}$	$D = \frac{10 \times \cancel{3}}{9 \times \cancel{3}}$ $D = \frac{10}{9}$ <p>►5. $E = 7 - \frac{7}{6}$</p> $E = \frac{7 \times 6}{1 \times 6} - \frac{7}{6}$ $E = \frac{42}{6} - \frac{7}{6}$ $E = \frac{35}{6}$ <p>►6. $F = \frac{5}{5} - 1$</p> $F = \frac{5}{5} - \frac{1 \times 5}{1 \times 5}$ $F = \frac{5}{5} - \frac{5}{5}$ $F = 0$	<p>►7. $G = \frac{5}{36} + \frac{10}{6}$</p> $G = \frac{5}{36} + \frac{10 \times 6}{6 \times 6}$ $G = \frac{5}{36} + \frac{60}{36}$ $G = \frac{65}{36}$ <p>►8. $H = \frac{8}{2} - 4$</p> $H = \frac{8}{2} - \frac{4 \times 2}{1 \times 2}$ $H = \frac{8}{2} - \frac{8}{2}$ $H = 0$
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