

Solutions des exercices *J'applique* (p. 81)**9**

- a. $\frac{8}{9}$ b. $\frac{30}{7}$ c. $\frac{6,8}{8}$ d. $\frac{6}{5}$
e. $-\frac{27}{8}$ f. $-\frac{5}{21}$ g. $-\frac{1}{7}$ h. $-\frac{11}{5}$

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- a. $\frac{17}{5} + \frac{7}{5} = \frac{24}{5}$
b. $\frac{3}{8} + \left(-\frac{7}{8}\right) = -\frac{4}{8} = -\frac{1}{2}$

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- a. $\frac{5}{2}$ b. $-\frac{13}{30}$ c. $\frac{2}{3}$ d. $-\frac{23}{4}$
e. $\frac{5}{7}$ f. $-\frac{6,8}{3}$ g. $-\frac{13}{12}$ h. $\frac{10,5}{7}$

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- a. $\frac{17}{5} - \frac{7}{5} = \frac{10}{5} = 2$
b. $\frac{3}{8} - \left(-\frac{7}{8}\right) = \frac{3}{8} + \frac{7}{8} = \frac{10}{8} = \frac{5}{4}$

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$$\begin{aligned} A &= \frac{2}{5} + \frac{3}{5} = \frac{5}{5} = 1 \\ B &= -\frac{11}{3} + \frac{2}{3} = -\frac{9}{3} = -3 \\ C &= \frac{4}{3} - \frac{10}{3} = -\frac{6}{3} = -2 \\ D &= -\frac{21}{10} - \frac{2}{10} = -\frac{23}{10} \\ E &= \frac{2}{11} - \frac{9}{11} - \frac{15}{11} = -\frac{22}{11} = -2 \\ F &= -\frac{7}{4} + \frac{10}{4} - \frac{21}{4} = -\frac{18}{4} = -\frac{9}{2} \\ G &= -\frac{3,5}{6} + \frac{2,3}{6} - \frac{10,8}{6} = -\frac{12}{6} = -2 \end{aligned}$$

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$$\begin{aligned} \text{a. } \frac{7}{6} + \frac{2}{3} &= \frac{7}{6} + \frac{2 \times 2}{3 \times 2} = \frac{7}{6} + \frac{4}{6} = \frac{11}{6} \\ \text{b. } 4 + \frac{1}{2} &= \frac{4 \times 2}{1 \times 2} + \frac{1}{2} = \frac{8}{2} + \frac{1}{2} = \frac{9}{2} \\ \text{c. } -\frac{12}{5} + \frac{1}{10} &= -\frac{12 \times 2}{5 \times 2} + \frac{1}{10} \\ &= -\frac{24}{10} + \frac{1}{10} \\ &= -\frac{23}{10} \\ \text{d. } \frac{4,5}{2,1} + \frac{8}{0,3} &= \frac{4,5}{2,1} + \frac{8 \times 7}{0,3 \times 7} \\ &= \frac{4,5}{2,1} + \frac{56}{2,1} \\ &= \frac{60,5}{2,1} = \frac{60,5 \times 10}{2,1 \times 10} = \frac{605}{21} \end{aligned}$$

$$\begin{aligned} \text{e. } -\frac{1}{9} - \frac{1}{27} &= -\frac{1 \times 3}{9 \times 3} - \frac{1}{27} \\ &= -\frac{3}{27} - \frac{1}{27} \\ &= -\frac{4}{27} \end{aligned}$$

$$\begin{aligned} \text{f. } \frac{23}{30} - \frac{3}{10} &= \frac{23}{30} - \frac{3 \times 3}{10 \times 3} \\ &= \frac{23}{30} - \frac{9}{30} \\ &= \frac{14}{30} = \frac{7 \times 2}{15 \times 2} = \frac{7}{15} \\ \text{g. } -\frac{8}{9} - \frac{1}{3} &= -\frac{8}{9} - \frac{1 \times 3}{3 \times 3} = -\frac{8}{9} - \frac{3}{9} = -\frac{11}{9} \\ \text{h. } \frac{2,4}{0,5} + \frac{1,9}{8} &= \frac{2,4 \times 16}{0,5 \times 16} + \frac{1,9}{8} \\ &= \frac{38,4}{8} + \frac{1,9}{8} \\ &= \frac{40,3}{8} = \frac{40,3 \times 10}{8 \times 10} = \frac{403}{80} \end{aligned}$$

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- a. $\frac{2}{5} + \frac{3}{4} = \frac{2 \times 4}{5 \times 4} + \frac{3 \times 5}{4 \times 5} = \frac{8}{20} + \frac{15}{20} = \frac{23}{20}$
- b. $\frac{5}{7} - \frac{3}{2} = \frac{5 \times 2}{7 \times 2} - \frac{3 \times 7}{2 \times 7} = \frac{10}{14} - \frac{21}{14} = -\frac{11}{14}$
- c. $-\frac{2}{3} - \frac{3}{2} = -\frac{2 \times 2}{3 \times 2} - \frac{3 \times 3}{2 \times 3} = -\frac{4}{6} - \frac{9}{6} = -\frac{13}{6}$
- d. $\frac{0,6}{5,4} - \frac{5}{6} = \frac{0,6 \times 10}{5,4 \times 10} - \frac{5 \times 9}{6 \times 9}$
 $= \frac{6}{54} - \frac{45}{54}$
 $= -\frac{39}{54} = -\frac{13 \times 3}{18 \times 3} = -\frac{13}{18}$

- e. $-\frac{7}{2} - \frac{2}{3} = -\frac{7 \times 3}{2 \times 3} - \frac{2 \times 2}{3 \times 2} = -\frac{21}{6} - \frac{4}{6} = -\frac{25}{6}$
- f. $\frac{4}{7} - \frac{7}{4} = \frac{4 \times 4}{7 \times 4} - \frac{7 \times 7}{4 \times 7} = \frac{16}{28} - \frac{49}{28} = -\frac{33}{28}$
- g. $\frac{7}{12} - \frac{2}{9} = \frac{7 \times 3}{12 \times 3} - \frac{2 \times 4}{9 \times 4} = \frac{21}{36} - \frac{8}{36} = \frac{13}{36}$
- h. $\frac{2,7}{0,8} - \frac{5}{6} = \frac{2,7 \times 30}{0,8 \times 30} - \frac{5 \times 4}{6 \times 4} = \frac{81}{24} - \frac{20}{24} = \frac{61}{24}$