

**1** Réduis au même dénominateur, calcule puis simplifie lorsque c'est possible.

$$A = \frac{3}{4} + \frac{7}{6}$$

$$A = \frac{3 \times 3}{4 \times 3} + \frac{7 \times 2}{6 \times 2}$$

$$A = \frac{9}{12} + \frac{14}{12}$$

$$A = \frac{23}{12}$$

$$E = \frac{3}{4} - \frac{7}{6}$$

$$E = \frac{3 \times 3}{4 \times 3} - \frac{7 \times 2}{6 \times 2}$$

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

$$B = \frac{9}{10} + \frac{5}{8}$$

$$B = \frac{9 \times 4}{10 \times 4} + \frac{5 \times 5}{8 \times 5}$$

$$B = \frac{36}{40} + \frac{25}{40}$$

$$B = \frac{61}{40}$$

$$F = \frac{9}{10} - \frac{5}{8}$$

$$F = \frac{9 \times 4}{10 \times 4} - \frac{5 \times 5}{8 \times 5}$$

$$F = \frac{11}{40}$$

$$C = \frac{9}{14} + \frac{5}{6}$$

$$C = \frac{9 \times 3}{14 \times 3} + \frac{5 \times 7}{6 \times 7}$$

$$C = \frac{27}{42} + \frac{35}{42}$$

$$C = \frac{62}{42} = \frac{31}{21}$$

$$G = \frac{9}{14} - \frac{5}{6}$$

$$G = \frac{9 \times 3}{14 \times 3} - \frac{5 \times 7}{6 \times 7}$$

$$G = \frac{-8}{42} = \frac{-4}{21}$$

$$D = \frac{5}{6} + \frac{1}{8}$$

$$D = \frac{5 \times 4}{6 \times 4} + \frac{1 \times 3}{8 \times 3}$$

$$D = \frac{20}{24} + \frac{3}{24}$$

$$D = \frac{23}{24}$$

$$H = \frac{5}{6} - \frac{1}{8}$$

$$H = \frac{5 \times 4}{6 \times 4} - \frac{1 \times 3}{8 \times 3}$$

$$H = \frac{17}{24}$$

**2** Même énoncé qu'à l'exercice 1.

$$J = \frac{7}{10} + \frac{4}{15}$$

$$J = \frac{7 \times 3}{10 \times 3} + \frac{4 \times 2}{15 \times 2}$$

$$J = \frac{29}{30}$$

$$N = \frac{7}{10} - \frac{4}{15}$$

$$N = \frac{7 \times 3}{10 \times 3} - \frac{4 \times 2}{15 \times 2}$$

$$N = \frac{13}{30}$$

$$K = \frac{1}{6} + \frac{10}{21}$$

$$K = \frac{1 \times 7}{6 \times 7} + \frac{10 \times 2}{21 \times 2}$$

$$K = \frac{27}{42} = \frac{9}{14}$$

$$P = \frac{1}{6} - \frac{10}{21}$$

$$P = \frac{1 \times 7}{6 \times 7} - \frac{10 \times 2}{21 \times 2}$$

$$P = \frac{-13}{42}$$

$$L = \frac{5}{12} + \frac{3}{8}$$

$$L = \frac{5 \times 2}{12 \times 2} + \frac{3 \times 3}{8 \times 3}$$

$$L = \frac{19}{24}$$

$$R = \frac{5}{12} - \frac{3}{8}$$

$$R = \frac{5 \times 2}{12 \times 2} - \frac{3 \times 3}{8 \times 3}$$

$$R = \frac{1}{24}$$

$$M = \frac{2}{9} + \frac{1}{6}$$

$$M = \frac{2 \times 2}{9 \times 2} + \frac{1 \times 3}{6 \times 3}$$

$$M = \frac{7}{18}$$

$$S = \frac{2}{9} - \frac{1}{6}$$

$$S = \frac{2 \times 2}{9 \times 2} - \frac{1 \times 3}{6 \times 3}$$

$$S = \frac{1}{18}$$

**3** Même énoncé qu'à l'exercice 1.

$$T = \frac{1}{3} + \frac{1}{12} + \frac{1}{30}$$

$$T = \frac{1 \times 20}{3 \times 20} + \frac{1 \times 5}{12 \times 5} + \frac{1 \times 2}{30 \times 2}$$

$$T = \frac{27}{60} = \frac{9}{20}$$

$$W = \frac{1}{4} + \frac{1}{8} - \frac{1}{16}$$

$$W = \frac{1 \times 4}{4 \times 4} + \frac{1 \times 2}{8 \times 2} - \frac{1}{16}$$

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

$$U = \frac{7}{6} + \frac{5}{12} + \frac{3}{16}$$

$$U = \frac{7 \times 8}{6 \times 8} + \frac{5 \times 4}{12 \times 4} + \frac{3 \times 3}{16 \times 3}$$

$$U = \frac{85}{48}$$

$$Y = \frac{4}{9} + \frac{8}{15} - \frac{2}{3}$$

$$Y = \frac{4 \times 5}{9 \times 5} + \frac{8 \times 3}{15 \times 3} - \frac{2 \times 15}{3 \times 15}$$

$$Y = \frac{14}{45}$$

$$V = \frac{1}{2} + \frac{5}{4} + \frac{4}{5}$$

$$V = \frac{1 \times 10}{2 \times 10} + \frac{5 \times 5}{4 \times 5} + \frac{4 \times 4}{5 \times 4}$$

$$V = \frac{51}{20}$$

$$Z = \frac{1}{6} - \frac{8}{27} - \frac{7}{18}$$

$$Z = \frac{1 \times 9}{6 \times 9} - \frac{8 \times 2}{27 \times 2} - \frac{7 \times 3}{18 \times 3}$$

$$Z = \frac{-28}{54} = \frac{-14}{27}$$