

Énoncés

Exercice 14

Calculer et simplifier :

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

$$C = \frac{15}{35} + \frac{2}{7}$$

$$E = \frac{13}{8} + \frac{5}{2} + \frac{3}{4}$$

$$G = 2 + \frac{3}{7} + \frac{11}{14}$$

$$I = \frac{15}{9} + \frac{2}{3} - \frac{6}{18}$$

$$B = \frac{40}{72} - \frac{1}{9}$$

$$D = \frac{5}{3} - \frac{52}{39}$$

$$F = \frac{5}{12} + \frac{11}{24} + \frac{1}{6}$$

$$H = \frac{3}{5} + \frac{4}{15} + \frac{7}{30}$$

$$J = 1 + \frac{9}{34} + \frac{3}{2}$$

Exercice 15

Calculer et simplifier :

$$A = \frac{3 \times 7}{5 \times 14}$$

$$C = \frac{2 \times 15}{3 \times 20}$$

$$E = \frac{12}{5} \times \frac{7}{6} \times \frac{5}{14}$$

$$G = \frac{15 \times 9}{6 \times 25}$$

$$B = \frac{12 \times 7}{5 \times 8}$$

$$D = \frac{9 \times 8}{4 \times 15}$$

$$F = \frac{16}{3} \times \frac{6}{24}$$

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

Exercice 16

Calculer et simplifier :

$$A = \frac{8}{5} + \frac{7}{5} \times \frac{3}{5}$$

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

$$E = \left(\frac{8}{5} + \frac{7}{5} \right) \times \frac{3}{5}$$

$$G = \frac{7}{6} \times \left(\frac{7}{2} - \frac{3}{2} \right)$$

$$B = \frac{53}{30} - \left(\frac{6}{10} + \frac{8}{10} \right)$$

$$D = \frac{3}{7} + \left(\frac{17}{14} - \frac{23}{28} \right)$$

$$F = \frac{53}{30} - \frac{6}{10} + \frac{8}{10}$$

$$H = \frac{3}{7} + \frac{17}{14} - \frac{23}{28}$$

Corrigés

Exercice 14

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

$$A = \frac{2}{3} + \frac{5}{3}$$

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

$$C = \frac{15}{35} + \frac{2}{7}$$

$$C = \frac{3}{7} + \frac{2}{7}$$

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

$$E = \frac{13}{8} + \frac{5}{2} + \frac{3}{4}$$

$$E = \frac{13}{8} + \frac{20}{8} + \frac{6}{8}$$

$$E = \frac{39}{8}$$

$$G = 2 + \frac{3}{7} + \frac{11}{14}$$

$$G = \frac{28}{14} + \frac{6}{14} + \frac{11}{14}$$

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

$$I = \frac{15}{9} + \frac{2}{3} - \frac{6}{18}$$

$$I = \frac{30}{18} + \frac{12}{18} - \frac{6}{18}$$

$$I = 2$$

$$B = \frac{40}{72} - \frac{1}{9}$$

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

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

$$D = \frac{5}{3} - \frac{52}{39}$$

$$D = \frac{5}{3} - \frac{4}{3}$$

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

$$F = \frac{5}{12} + \frac{11}{24} + \frac{1}{6}$$

$$F = \frac{10}{24} + \frac{11}{24} + \frac{4}{24}$$

$$F = \frac{25}{24}$$

$$H = \frac{3}{5} + \frac{4}{15} + \frac{7}{30}$$

$$H = \frac{18}{30} + \frac{8}{30} + \frac{7}{30}$$

$$H = \frac{11}{10}$$

$$J = 1 + \frac{9}{34} + \frac{3}{2}$$

$$J = \frac{34}{34} + \frac{9}{34} + \frac{51}{34}$$

$$J = \frac{47}{17}$$

Exercice 15

$$A = \frac{3 \times 7}{5 \times 2 \times 7}$$

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

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

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

$$E = \frac{2 \times 6 \times 7 \times 5}{5 \times 6 \times 2 \times 7}$$

$$E = 1$$

$$G = \frac{5 \times 3 \times 9}{2 \times 3 \times 5 \times 5}$$

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

$$B = \frac{4 \times 3 \times 7}{5 \times 2 \times 4}$$

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

$$D = \frac{3 \times 3 \times 2 \times 4}{4 \times 3 \times 5}$$

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

$$F = \frac{4 \times 4 \times 6}{3 \times 4 \times 6}$$

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

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

$$H = 11$$

Exercice 16

$$A = \frac{8}{5} + \frac{7}{5} \times \frac{3}{5}$$

$$A = \frac{8}{5} + \frac{21}{25}$$

$$A = \frac{61}{25}$$

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

$$C = \frac{49}{12} - \frac{3}{2}$$

$$C = \frac{31}{12}$$

$$E = \left(\frac{8}{5} + \frac{7}{5} \right) \times \frac{3}{5}$$

$$E = \frac{15}{5} \times \frac{3}{5}$$

$$E = \frac{9}{5}$$

$$G = \frac{7}{6} \times \left(\frac{7}{2} - \frac{3}{2} \right)$$

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

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

$$B = \frac{53}{30} - \left(\frac{6}{10} + \frac{8}{10} \right)$$

$$B = \frac{53}{30} - \frac{14}{10}$$

$$B = \frac{11}{30}$$

$$D = \frac{3}{7} + \left(\frac{17}{14} - \frac{23}{28} \right)$$

$$D = \frac{3}{7} + \frac{11}{28}$$

$$D = \frac{23}{28}$$

$$F = \frac{53}{30} - \frac{6}{10} + \frac{8}{10}$$

$$F = \frac{53}{30} - \frac{18}{30} + \frac{24}{30}$$

$$F = \frac{59}{30}$$

$$H = \frac{3}{7} + \frac{17}{14} - \frac{23}{28}$$

$$H = \frac{12}{28} + \frac{34}{28} - \frac{23}{28}$$

$$H = \frac{23}{28}$$