

Exercice 1

Calculer

$$A = \frac{3}{7} + \frac{2}{7}, B = \frac{3}{10} + \frac{9}{10}, C = \frac{3}{5} - \frac{1}{5}$$

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

$$B = \frac{3}{10} + \frac{9}{10}$$

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

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

$$B = \frac{12}{10}$$

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

Exercice 2

Calculer

$$A = \frac{1}{2} + \frac{3}{8}, B = \frac{7}{10} - \frac{2}{5}, C = \frac{2}{3} - \frac{5}{12}$$

$$A = \frac{1}{2} + \frac{3}{8}$$

$$B = \frac{7}{10} - \frac{2}{5}$$

$$C = \frac{2}{3} - \frac{5}{12}$$

$$A = \frac{4}{8} + \frac{3}{8}$$

$$B = \frac{7}{10} - \frac{4}{10}$$

$$C = \frac{8}{12} - \frac{5}{12}$$

$$A = \frac{7}{8}$$

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

$$C = \frac{3}{12}$$

Exercice 3

Calculer

$$A = 1 + \frac{3}{5}, B = 2 - \frac{3}{7}, C = 3 - \frac{7}{10}$$

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

$$B = 2 - \frac{3}{7}$$

$$C = 3 - \frac{7}{10}$$

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

$$B = \frac{14}{7} - \frac{3}{7}$$

$$C = \frac{30}{10} - \frac{7}{10}$$

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

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

$$C = \frac{23}{10}$$

Exercice 4

Calculer

$$A = \frac{1}{10} + \frac{3}{10} + \frac{7}{10}, B = \frac{65}{100} - \frac{3}{100} + \frac{7}{100}$$

$$A = \frac{1}{10} + \frac{3}{10} + \frac{7}{10}$$

$$B = \frac{65}{100} - \frac{3}{100} + \frac{7}{100}$$

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

$$B = \frac{69}{100}$$

Exercice 5

Calculer

$$A = \frac{1}{2} + \frac{3}{5} + \frac{7}{10}, B = \frac{1}{2} + \frac{3}{10} + \frac{23}{100}$$

$$A = \frac{1}{2} + \frac{3}{5} + \frac{7}{10}$$

$$B = \frac{1}{2} + \frac{3}{10} + \frac{23}{100}$$

$$A = \frac{5}{10} + \frac{6}{10} + \frac{7}{10}$$

$$B = \frac{50}{100} + \frac{30}{100} + \frac{23}{100}$$

$$A = \frac{18}{10}$$

$$B = \frac{103}{100}$$

Exercice 6

Calculer

$$A = 1 + \frac{1}{3} + \frac{5}{12}, B = \frac{1}{2} + 2 + \frac{3}{10}$$

$$A = 1 + \frac{1}{3} + \frac{5}{12}$$

$$B = \frac{1}{2} + 2 + \frac{3}{10}$$

$$A = \frac{12}{12} + \frac{4}{12} + \frac{5}{12}$$

$$B = \frac{5}{10} + \frac{20}{10} + \frac{3}{10}$$

$$A = \frac{21}{12}$$

$$B = \frac{28}{10}$$

Exercice 7

Calculer

$$A = \frac{3}{10} \times \frac{7}{10}, B = \frac{3}{7} \times \frac{2}{7}, C = \frac{1}{2} \times \frac{1}{2}$$

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

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

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

$$A = \frac{21}{100}$$

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

$$C = \frac{1}{4}$$

Exercice 8

Calculer

$$A = \frac{3}{10} \times \frac{2}{5}, B = \frac{3}{5} \times \frac{1}{2}, C = \frac{2}{7} \times \frac{4}{3}$$

$$A = \frac{3}{10} \times \frac{2}{5}$$

$$B = \frac{3}{5} \times \frac{1}{2}$$

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

$$A = \frac{6}{50}$$

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

$$C = \frac{8}{21}$$

Exercice 9

$$A = \frac{1}{2} \times \frac{3}{4} \times \frac{5}{6}, B = \frac{7}{2} \times \frac{1}{5} \times \frac{3}{4}$$

$$A = \frac{1}{2} \times \frac{3}{4} \times \frac{5}{6}$$

$$B = \frac{7}{2} \times \frac{1}{5} \times \frac{3}{4}$$

$$A = \frac{15}{48}$$

$$B = \frac{21}{40}$$

Exercice 10

Simplifier avant de calculer

$$A = \frac{8}{16} \times \frac{15}{25}, B = \frac{21}{25} \times \frac{45}{14}$$

$$A = \frac{8}{16} \times \frac{15}{25}$$

$$B = \frac{21}{36} \times \frac{45}{14}$$

$$A = \frac{\underline{8} \times \underline{5} \times 3}{\underline{8} \times \underline{2} \times \underline{5} \times 5}$$

$$B = \frac{\underline{7} \times \underline{3} \times \underline{9} \times 5}{\underline{9} \times \underline{4} \times \underline{7} \times 2}$$

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

$$B = \frac{15}{8}$$

Exercice 11

$$A = \left(\frac{3}{10}\right)^2, B = \left(\frac{5}{7}\right)^2$$

$$A = \left(\frac{3}{10}\right)^2$$

$$B = \left(\frac{5}{7}\right)^2$$

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

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

$$A = \frac{9}{100}$$

$$B = \frac{25}{49}$$

Exercice 12

Calculer

$$A = 7+3 \times 2 \quad B = (7+3) \times 2$$

$$A = 7+3 \times 2$$

$$A = 7+ 6$$

$$A = 13$$

$$B = (7+3) \times 2$$

$$B = 10 \times 2$$

$$B = 20$$

Exercice 13

Calculer

$$A = \frac{3}{5} + \frac{2}{5} \times \frac{1}{3}$$

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

$$A = \frac{3}{5} + \frac{2}{5} \times \frac{1}{3}$$

$$A = \frac{3}{5} + \frac{2}{15}$$

$$A = \frac{9}{15} + \frac{2}{15}$$

$$A = \frac{11}{15}$$

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

$$B = \frac{4}{7} - \frac{6}{35}$$

$$B = \frac{20}{35} - \frac{6}{35}$$

$$B = \frac{14}{35}$$

Exercice 14

Calculer

$$A = 5+3 \times \frac{1}{2}$$

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

$$A = 5+3 \times \frac{1}{2}$$

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

$$A = \frac{10}{2} + \frac{3}{2}$$

$$A = \frac{13}{2}$$

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

$$B = 5-\frac{8}{3}$$

$$B = \frac{15}{3} - \frac{8}{3}$$

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

Exercice 15

Calculer

$$A = (\frac{3}{5} + \frac{3}{10}) \times \frac{2}{5}$$

$$B = (1 - \frac{1}{7}) \times \frac{3}{5}$$

$$A = (\frac{3}{5} + \frac{3}{10}) \times \frac{2}{5}$$

$$A = (\frac{6}{10} + \frac{3}{10}) \times \frac{2}{5}$$

$$A = \frac{9}{10} \times \frac{2}{5}$$

$$A = \frac{18}{50}$$

$$B = (1 - \frac{1}{7}) \times \frac{3}{5}$$

$$B = (\frac{7}{7} - \frac{1}{7}) \times \frac{3}{5}$$

$$B = \frac{6}{7} \times \frac{3}{5}$$

$$B = \frac{18}{35}$$

Exercice 16

$$A = 1 - \frac{1}{4} + \frac{3}{8} \quad B = 1 - (\frac{1}{3} + \frac{2}{9})$$

$$A = 1 - \frac{1}{4} + \frac{3}{8}$$

$$A = \frac{8}{8} - \frac{2}{8} + \frac{3}{8}$$

$$A = \frac{6}{8} + \frac{3}{8}$$

$$A = \frac{9}{8}$$

$$B = 1 - (\frac{1}{3} + \frac{2}{9})$$

$$B = \frac{9}{9} - (\frac{3}{9} + \frac{2}{9})$$

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

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

Exercice 17

On donne $a = \frac{2}{3}$

Calculer : $A = 2a$, $B = 2 + a$ et $C = a^2$

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

$$A = 2a$$

$$B = 2 + a$$

$$C = a^2$$

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

$$B = 2 + \frac{2}{3}$$

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

$$A = \frac{2}{1} \times \frac{2}{3}$$

$$B = \frac{6}{3} + \frac{2}{3}$$

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

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

$$B = \frac{8}{3}$$

Exercice 18

On donne $a = \frac{3}{4}$ et $b = \frac{1}{2}$

Calculer $A = a + b$, $B = ab$

$$a = \frac{3}{4} \text{ et } b = \frac{1}{2}$$

$$A = a + b$$

$$B = ab$$

$$A = \frac{3}{4} + \frac{1}{2}$$

$$B = \frac{3}{4} \times \frac{1}{2}$$

$$A = \frac{3}{4} + \frac{2}{4}$$

$$B = \frac{3}{8}$$

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

Exercice 19

$$A = x^2 + 2x + 1$$

Calculer A lorsque

a) $x = 10$ b) $x = 5$

$$x = 10$$

$$x = 5$$

$$A = x^2 + 2x + 1$$

$$A = x^2 + 2x + 1$$

$$A = 10^2 + 2 \times 10 + 1$$

$$A = 5^2 + 2 \times 5 + 1$$

$$A = 100 + 20 + 1$$

$$A = 25 + 10 + 1$$

$$A = 121$$

$$A = 36$$

Exercice 20

$$A = x^2 + 2x + 1$$

Calculer A lorsque

a) $x = \frac{3}{4}$ b) $x = \frac{1}{3}$

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

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

$$A = x^2 + 2x + 1$$

$$A = x^2 + 2x + 1$$

$$A = \left(\frac{3}{4}\right)^2 + 2 \times \frac{3}{4} + 1$$

$$A = \left(\frac{1}{3}\right)^2 + 2 \times \left(\frac{1}{3}\right) + 1$$

$$A = \frac{3}{4} \times \frac{3}{4} + \frac{2}{1} \times \frac{3}{4} + 1$$

$$A = \frac{1}{3} \times \frac{1}{3} + \frac{2}{1} \times \frac{1}{3} + 1$$

$$A = \frac{9}{16} + \frac{6}{4} + 1$$

$$A = \frac{1}{9} + \frac{2}{3} + 1$$

$$A = \frac{9}{16} + \frac{24}{16} + \frac{16}{16}$$

$$A = \frac{1}{9} + \frac{6}{9} + \frac{9}{9}$$

$$A = \frac{49}{16}$$

$$A = \frac{16}{9}$$