

<u>Exercice 3</u> Calculer $A = \frac{1}{5} + \frac{1}{10}, B = \frac{1}{5} - \frac{1}{10}$ $C = \frac{1}{5} \times \frac{1}{10}, D = \frac{1}{5} \div \frac{1}{10}$	<u>Exercice 4</u> Calculer $A = \frac{1}{2} + \frac{3}{8}, B = \frac{1}{2} - \frac{3}{8}$ $C = \frac{1}{2} \times \frac{3}{8}, D = \frac{1}{2} \div \frac{3}{8}$	<u>Exercice 5</u> Calculer $A = \frac{3}{5} + \frac{1}{2}, B = \frac{3}{5} - \frac{1}{2}$ $C = \frac{3}{5} \times \frac{1}{2}, D = \frac{3}{5} \div \frac{1}{2}$
<u>Exercice 9</u> Calculer $A = 2 + \frac{3}{5}, B = 2 - \frac{3}{5}$ $C = 2 \times \frac{3}{5}, D = 2 \div \frac{3}{5}$	<u>Exercice 12</u> Calculer $A = \frac{2}{3} + 5, B = \frac{2}{3} - 5$ $C = \frac{2}{3} \times 5, D = \frac{2}{3} \div 5$	<u>Exercice 14</u> Calculer $A = \frac{4}{\frac{5}{3}}, B = \frac{\frac{3}{4}}{7}, C = \frac{5}{\frac{2}{7}}$
<u>Exercice 18</u> Calculer $A = \frac{-1}{2} + \frac{-3}{5}, B = \frac{-1}{2} - \frac{-3}{5}$ $C = \frac{-1}{2} \times \frac{-3}{5}, D = \frac{-1}{2} \div \frac{-3}{5}$	<u>Exercice 19</u> Calculer $A = -\frac{1}{2} + \frac{1}{6}, B = -\frac{1}{2} - \frac{1}{6}$ $C = -\frac{1}{2} \times \frac{1}{6}, D = -\frac{1}{2} \div \frac{1}{6}$	<u>Exercice 20</u> On donne $a = \frac{2}{3}$ Calculer : $A = 2a, B = 2 + a$ et $C = a^2$
<u>Exercice 22</u> Calculer On donne $a = -\frac{1}{2}$ Calculer : $A = 5a, B = 1 - a$ et $C = a^2$	<u>Exercice 23</u> On donne $a = \frac{3}{4}$ et $b = \frac{1}{2}$ Calculer $A = a + b, B = ab, C = \frac{a}{b}$ et $D = \frac{b}{a}$.	

Corrections :

<u>Exercice 3 :</u> $A = \frac{1}{5} + \frac{1}{10} = \frac{2}{10} + \frac{1}{10} = \frac{3}{10}$ $B = \frac{1}{5} - \frac{1}{10} = \frac{2}{10} - \frac{1}{10} = \frac{1}{10}$ $C = \frac{1}{5} \times \frac{1}{10} = \frac{1}{50}$ $D = \frac{1}{5} \div \frac{1}{10} = \frac{1}{5} \times \frac{10}{1} = \frac{10}{5} = 2$	<u>Exercice 4 :</u> $A = \frac{1}{2} + \frac{3}{8} = \frac{4}{8} + \frac{3}{8} = \frac{7}{8}$ $B = \frac{1}{2} - \frac{3}{8} = \frac{4}{8} - \frac{3}{8} = \frac{1}{8}$ $C = \frac{1}{2} \times \frac{3}{8} = \frac{3}{16}$ $D = \frac{1}{2} \div \frac{3}{8} = \frac{1}{2} \times \frac{8}{3} = \frac{8}{6}$	<u>Exercice 5 :</u> $A = \frac{3}{5} + \frac{1}{2} = \frac{6}{10} + \frac{5}{10} = \frac{11}{10}$ $B = \frac{3}{5} - \frac{1}{2} = \frac{6}{10} - \frac{5}{10} = \frac{1}{10}$ $C = \frac{3}{5} \times \frac{1}{2} = \frac{3}{10}$ $D = \frac{3}{5} \div \frac{1}{2} = \frac{3}{5} \times \frac{2}{1} = \frac{6}{5}$
<u>Exercice 9 :</u> $A = 2 + \frac{3}{5} = \frac{10}{5} + \frac{3}{5} = \frac{13}{5}$ $B = 2 - \frac{3}{5} = \frac{10}{5} - \frac{3}{5} = \frac{7}{5}$ $C = 2 \times \frac{3}{5} = \frac{2}{1} \times \frac{3}{5} = \frac{6}{5}$ $D = 2 \div \frac{3}{5} = \frac{2}{1} \times \frac{5}{3} = \frac{10}{3}$	<u>Exercice 12 :</u> $A = \frac{2}{3} + 5 = \frac{2}{3} + \frac{15}{3} = \frac{17}{3}$ $B = \frac{2}{3} - 5 = \frac{2}{3} - \frac{15}{3} = -\frac{13}{3}$ $C = \frac{2}{3} \times 5 = \frac{2}{3} \times \frac{5}{1} = \frac{10}{3}$ $D = \frac{2}{3} \div 5 = \frac{2}{3} \div \frac{5}{1} = \frac{2}{3} \times \frac{1}{5} = \frac{2}{15}$	<u>Exercice 14 :</u> $A = \frac{4}{\frac{5}{3}} = \frac{4}{5} \div \frac{3}{7} = \frac{4}{5} \times \frac{7}{3} = \frac{28}{15}$ $B = \frac{\frac{3}{4}}{7} = \frac{3}{4} \div 7 = \frac{3}{4} \div \frac{7}{1} = \frac{3}{4} \times \frac{1}{7} = \frac{3}{28}$ $C = \frac{5}{\frac{2}{7}} = 5 \div \frac{2}{7} = \frac{5}{1} \div \frac{2}{7} = \frac{5}{1} \times \frac{7}{2} = \frac{35}{2}$

Exercice 18 :

$$A = \frac{-1}{2} + \frac{-3}{5} = \frac{-5}{10} + \frac{-6}{10} = \frac{-11}{10}$$

$$B = \frac{-1}{2} - \frac{-3}{5} = \frac{-1}{2} + \frac{3}{5} = \frac{-5}{10} + \frac{6}{10} = \frac{1}{10}$$

$$C = \frac{-1}{2} \times \frac{-3}{5} = \frac{3}{10}$$

$$D = \frac{-1}{2} \div \frac{-3}{5} = \frac{-1}{2} \times \frac{5}{3} = \frac{5}{6}$$

Exercice 19 :

$$A = -\frac{1}{2} + \frac{1}{6} = \frac{-3}{6} + \frac{1}{6} = \frac{-2}{6}$$

$$B = -\frac{1}{2} - \frac{1}{6} = \frac{-3}{6} - \frac{1}{6} = \frac{-4}{6}$$

$$C = -\frac{1}{2} \times \frac{1}{6} = \frac{-1}{12}$$

$$D = -\frac{1}{2} \div \frac{1}{6} = -\frac{1}{2} \times \frac{6}{1} = -\frac{6}{2} = -3$$

Exercice 20 :

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

$$A = 2a = 2 \times \frac{2}{3} = \frac{4}{3}$$

$$B = 2+a = 2 + \frac{2}{3} = \frac{6}{3} + \frac{2}{3} = \frac{8}{3}$$

$$C = a^2 = \left(\frac{2}{3}\right)^2 = \frac{2}{3} \times \frac{2}{3} = \frac{4}{9}$$

Exercice 22 :

$$a = -\frac{1}{2}$$

$$A = 5a = 5 \times \frac{-1}{2} = \frac{-5}{2}$$

$$B = 1-a = 1 - \frac{-1}{2} = \frac{2}{2} + \frac{1}{2} = \frac{3}{2}$$

$$C = a^2 = \left(\frac{-1}{2}\right)^2 = \frac{-1}{2} \times \frac{-1}{2} = \frac{1}{4}$$

Exercice 23 :

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

$$A = a+b = \frac{3}{4} + \frac{1}{2} = \frac{3}{4} + \frac{2}{4} = \frac{5}{4}$$

$$B = ab = \frac{3}{4} \times \frac{1}{2} = \frac{3}{8}$$

$$C = \frac{a}{b} = \frac{3}{4} \div \frac{1}{2} = \frac{3}{4} \times \frac{2}{1} = \frac{6}{4}$$

$$D = \frac{b}{a} = \frac{1}{2} \div \frac{3}{4} = \frac{1}{2} \times \frac{4}{3} = \frac{4}{6}$$