

4^{ème} EXERCICES FRACTIONS (OPERATIONS)

Exercice 1

Calculer

$$A = \frac{3}{7} + \frac{2}{7}, \quad B = \frac{3}{7} - \frac{2}{7}$$

$$C = \frac{3}{7} \times \frac{2}{7}, \quad D = \frac{3}{7} \div \frac{2}{7}$$

Exercice 2

Calculer

$$A = \frac{7}{10} + \frac{1}{10}, \quad B = \frac{7}{10} - \frac{1}{10}$$

$$C = \frac{7}{10} \times \frac{1}{10}, \quad D = \frac{7}{10} \div \frac{1}{10}$$

Exercice 3

Calculer

$$A = \frac{1}{5} + \frac{1}{10}, \quad B = \frac{1}{5} - \frac{1}{10}$$

$$C = \frac{1}{5} \times \frac{1}{10}, \quad D = \frac{1}{5} \div \frac{1}{10}$$

Exercice 4

Calculer

$$A = \frac{1}{2} + \frac{3}{8}, \quad B = \frac{1}{2} - \frac{3}{8}$$

$$C = \frac{1}{2} \times \frac{3}{8}, \quad D = \frac{1}{2} \div \frac{3}{8}$$

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Exercice 5

Calculer

$$A = \frac{3}{5} + \frac{1}{2}, \quad B = \frac{3}{5} - \frac{1}{2}$$

$$C = \frac{3}{5} \times \frac{1}{2}, \quad D = \frac{3}{5} \div \frac{1}{2}$$

Exercice 6

Calculer

$$A = \frac{1}{2} + \frac{1}{3}, \quad B = \frac{1}{2} - \frac{1}{3}$$

$$C = \frac{1}{2} \times \frac{1}{3}, \quad D = \frac{1}{2} \div \frac{1}{3}$$

Exercice 7

Calculer

$$A = \frac{7}{10} + \frac{4}{15}, \quad B = \frac{7}{10} - \frac{4}{15}$$

$$C = \frac{7}{10} \times \frac{4}{15}, \quad D = \frac{7}{10} \div \frac{4}{15}$$

Exercice 8

Calculer

$$A = \frac{5}{9} + \frac{1}{6}, \quad B = \frac{5}{9} - \frac{1}{6}$$

$$C = \frac{5}{9} \times \frac{1}{6}, \quad D = \frac{5}{9} \div \frac{1}{6}$$

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Exercice 9

Calculer

$$A = 2 + \frac{3}{5}, B = 2 - \frac{3}{5}$$

$$C = 2 \times \frac{3}{5}, D = 2 \div \frac{3}{5}$$

Exercice 10

Calculer

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

$$C = 3 \times \frac{1}{4}, D = 3 \div \frac{1}{4}$$

Exercice 11

Calculer

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

$$C = 1 \times \frac{3}{10}, D = 1 \div \frac{3}{10}$$

Exercice 12

Calculer

$$A = \frac{2}{3} + 5, B = \frac{2}{3} - 5$$

$$C = \frac{2}{3} \times 5, D = \frac{2}{3} \div 5$$

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Exercice 13

Calculer

$$A = \frac{5}{7} + 2, \quad B = \frac{5}{7} - 2$$

$$C = \frac{5}{7} \times 2, \quad D = \frac{5}{7} \div 2$$

Exercice 14

Calculer

$$A = \frac{\frac{4}{5}}{\frac{3}{7}} \quad B = \frac{\frac{3}{4}}{\frac{4}{7}} \quad C = \frac{\frac{5}{2}}{\frac{2}{7}}$$

Exercice 15

Calculer

$$A = \frac{\frac{1}{5}}{\frac{1}{7}} \quad B = \frac{\frac{1}{4}}{\frac{4}{7}} \quad C = \frac{\frac{1}{1}}{\frac{1}{7}}$$

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Exercice 16

Que peut-on dire des fractions $\frac{-2}{7}$, $\frac{2}{-7}$ et $-\frac{2}{7}$?

Que peut-on dire des fractions $\frac{-2}{-7}$ et $\frac{2}{7}$?

Exercice 17

Calculer

$$A = \frac{-2}{7} + \frac{-1}{7}, B = \frac{-2}{7} - \frac{-1}{7}$$

$$C = \frac{-2}{7} \times \frac{-1}{7}, D = \frac{-2}{7} \div \frac{-1}{7}$$

Exercice 18

Calculer

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

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

Exercice 19

Calculer

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

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

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Exercice 20

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

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

Exercice 21

On donne $a = \frac{4}{5}$

Calculer : $A = 3a$, $B = 1 - a$ et $C = a^2$

Exercice 22

Calculer

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

Calculer : $A = 5a$, $B = 1 - a$ et $C = a^2$

Exercice 23

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

Calculer $A = a + b$, $B = ab$, $C = \frac{a}{b}$ et $D = \frac{b}{a}$.