

**Série 1 d'exercices :**

**Nombres décimaux relatifs ;  
Présentation des nombres rationnels.**



**Exercice 1 :**

Calculer les expressions suivantes :

$$A = 25.4 - 14 + 2.3$$

$$B = 50 \div (-4) \times 7$$

$$C = (-162) \div (-9) \div (-6)$$

$$D = 0.9 - 0.009 + 90 - 901$$

**Exercice 2 :**

Calculer les expressions suivantes :

$$A = (-7) \times (-5) + 5 - 3 \times 4$$

$$B = 50 \div (-4) \times 7 - 8$$

$$C = (-60) \div 6 - 4 \times (-11)$$

$$D = 32 - 5 \times 7 - 12 \div 6 + 1.5$$

**Exercice 3 :**

Calculer les expressions suivantes :

$$A = 10 + [-9 - (6 \div 5)]$$

$$B = [1 - (0.25 \times 4)] \times 4$$

$$C = 5 + 3 \times [4 - 3 \times (2 - 7)]$$

$$D = 14 + 2 \times (11 - 3 \times 4) + [2 + 14 \div 7 + (15 + 3)]$$

**Exercice 4 :**

- Calculer en utilisant la distribution :

$$x = 13 \times (25 + 3)$$

$$y = (45 - 31) \times 5$$

$$z = 5 \times (7 - 10) - 3 \times (7 + 10)$$

- Calculer mentalement :

$$M = 12 \times 99$$

$$N = 101 \times 18$$

$$O = 32.75 \times 27 - 32.75 \times 26$$

**Exercice 5 :**

Supprimer les parenthèses et les crochets  
puis calculer :

$$A = 10.5 + (-3.5 + 1.5) - (10.5 - 3.5 + 8)$$

$$B = 2.5 + 11 - [2.5 + (-22.1 - 5.5 + 3) - 1.5]$$

**Exercice 6 :**

Recopier et compléter chaque colonne en  
mettant une croix dans les cases qui convient.

	7,25	$\frac{36}{4}$	$\frac{7}{-8}$	$\frac{427}{11}$	$-\frac{223}{25}$	$\frac{842}{7}$
entier						
decimal						
rationnel						

**Exercice 7 :**

Déterminer les nombres décimaux relatifs  
parmi les nombres rationnels suivants :

$$\frac{13}{3} \quad ; \quad \frac{25}{15} \quad ; \quad \frac{-125}{16} \quad ; \quad \frac{-0.37}{-0.5} \quad ; \quad \frac{3}{4}$$

$$\frac{8}{13} \quad ; \quad \frac{-5}{16} \quad ; \quad \frac{6}{-20} \quad ; \quad \frac{3.2}{4.5} \quad ; \quad \frac{-25}{49}$$

**Exercice 8 :**

Déterminer le signe des nombres suivants :

$$\frac{-3}{0.7} \quad ; \quad \frac{-11}{-21} \quad ; \quad \frac{+7}{13} \quad ; \quad -\frac{1}{-6} \quad ; \quad -\left(-\frac{-1}{4}\right)$$

$$\frac{(-2) \times 3 \times (-5)}{6 \times (-1) \times 7} \quad ; \quad \frac{(-0.5) \times (-1.25) \times 13}{(-6) \times 27 \times (-1.3)}$$

**Exercice 9 :**

Simplifier les nombres rationnels suivants :

$$\frac{4}{20} \quad ; \quad \frac{-50}{120} \quad ; \quad \frac{-9}{-21} \quad ; \quad \frac{11}{-77} \quad ; \quad \frac{18}{27} \quad ; \quad \frac{999}{444}$$

$$\frac{5 \times 8 \times 4}{7 \times 10 \times 4} \quad ; \quad \frac{(-6) \times 10}{5 \times (-3)} \quad ; \quad \frac{(-36) \times 12 \times (-15)}{14 \times (-18) \times 6}$$

**Exercice 10 :**

En appliquant le produit en croix ;

comparer les deux nombres suivants :

$$\frac{-5}{2} \quad \text{et} \quad \frac{13}{-25} \quad / \quad \frac{10}{-4} \quad \text{et} \quad \frac{29}{-6} \quad / \quad \frac{-22}{-4} \quad \text{et} \quad \frac{11}{2}$$

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