

## Chapitre 2 : Opérations sur les relatifs : multiplications et divisions

**Exercice 1 : Donner le signe du produit suivant**

$$M = -3 \times (-5) \times (-2) \times 6 \times (-8) \times (-19)$$

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$$Q = 5 \times (-5) \times (-5) \times 5 \times (-5) \times (-5) \times 5 \times (-5) \times (-5)$$

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$$R = (-3) \times (-3) \times (-3) \times (-3) \times (-3) \times (-3) \times (-3) \times (-3) \times (-3)$$

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**Exercice 2 : Dans chaque cas, sans calculer le produit, déterminer son signe.**

a)  $(-5) \times (-6) \times 7$  ;

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b)  $5 \times (-6) \times (-7) \times (-8)$  ;

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c)  $(-5) \times (-6) \times (-7) \times (-8) \times (-9)$  ;

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d)  $5 \times (-6) \times (-7) \times (-8) \times (-9)$ .

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**Exercice 3 : Donner le signe des produits suivants sans les calculer.**

$A = (-13) \times (-7)$

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$B = (-0,36) \times 3,7$

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$C = 65 \times (-1,4)$

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$D = (-3) \times (-5) \times (-12) \times 6$

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$E = (-13) \times 5 \times (-12) \times (-6) \times 11 \times (-5) \times (-12) \times (-6)$

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\_\_\_\_\_

$F = (-1) \times 2 \times (-3) \times 4 \times (-5) \times 6 \times (-7) \times 8 \times (-9) \times 10$

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**Exercice 4 : Calculer les produits suivants :**

$A = -6 \times 9 =$  \_\_\_\_\_

$G = -6 \times (-11) =$  \_\_\_\_\_

$B = -4 \times (-2,5) =$  \_\_\_\_\_

$H = 0,5 \times (-12) =$  \_\_\_\_\_

$C = 7 \times (-1) =$  \_\_\_\_\_

$I = 4 \times 25 =$  \_\_\_\_\_

$D = (-1) \times (-8) =$  \_\_\_\_\_

$J = 13 \times (-1) =$  \_\_\_\_\_

$E = -18 \times 0 =$  \_\_\_\_\_

$K = (-6) \times (-1) =$  \_\_\_\_\_

$F = (-8) \times 9 =$  \_\_\_\_\_

$L = 0 \times (-16) =$  \_\_\_\_\_

**Exercice 5 : Calculer les produits suivants :**

$A = 12 \times 5 =$  \_\_\_\_\_

$G = -3 \times 5 =$  \_\_\_\_\_

$B = -1 \times 5 =$  \_\_\_\_\_

$H = (-6) \times (-6) =$  \_\_\_\_\_

$C = (-3) \times (-3) =$  \_\_\_\_\_

$I = -12 \times 0,3 =$  \_\_\_\_\_

$D = 3,5 \times (-10) =$  \_\_\_\_\_

$J = 0,4 \times (-3) =$  \_\_\_\_\_

$E = -168 \times 0 =$  \_\_\_\_\_

$K = (-21) \times (-5) =$  \_\_\_\_\_

$F = -56 \times (-0,1) =$  \_\_\_\_\_

$L = (-56) \times (-0,5) =$  \_\_\_\_\_

**Exercice 6 : Calculer les produits suivants :**

A =  $(+9) \times (+7) =$  \_\_\_\_\_

G =  $(-9) \times (+11) =$  \_\_\_\_\_

B =  $(-9) \times (+7) =$  \_\_\_\_\_

H =  $(-5) \times (-6) =$  \_\_\_\_\_

C =  $(+9) \times (-7) =$  \_\_\_\_\_

I =  $(-4,5) \times (+2) =$  \_\_\_\_\_

D =  $(-9) \times (-7) =$  \_\_\_\_\_

J =  $(+12,5) \times (-4) =$  \_\_\_\_\_

E =  $(-6) \times (-9) =$  \_\_\_\_\_

K =  $(-6) \times (-7,1) =$  \_\_\_\_\_

F =  $(+8) \times (-7) =$  \_\_\_\_\_

L =  $(-10) \times (-1,6) =$  \_\_\_\_\_

**Exercice 7 : Déterminer le signe de chaque produit, puis le calculer.**

a)  $2 \times (-17) \times (-5) =$  \_\_\_\_\_

b)  $(-3) \times (-2) \times (-15) \times 5 =$  \_\_\_\_\_

c)  $125 \times (-8) \times (-0,25) \times 4 \times 7 =$  \_\_\_\_\_

**Exercice 8 : Calculer les produits suivants :**

a)  $4 \times 19 \times (-0,5) \times 0 \times 6 \times (-18) \times (-9) =$  \_\_\_\_\_

b)  $(-3) \times 4 \times (-5) \times (-1) =$  \_\_\_\_\_

c)  $(-2) \times (-2) \times (-2) \times (-2) \times (-2) =$  \_\_\_\_\_

d)  $10 \times (-3) \times 2 \times (-5) \times (-6) =$  \_\_\_\_\_

e)  $(-4,3) \times (-10) \times 2 \times (-1) \times (-1) =$  \_\_\_\_\_

f)  $-0,8 \times 4 \times (-0,3) \times 2 \times (-1) =$  \_\_\_\_\_

**Exercice 9 : Calculer le produit suivant :  $P = (-4) \times 0,06 \times (-25) \times (-3) \times (-2)$**

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**Exercice 10 : Calculer astucieusement :**

U =  $(-0,2) \times 0,7 \times (-3) \times (-5) \times (-3)$

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$$V = 14 \times 0 \times 19 \times (-0,5) \times 6 \times (-18)$$

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$$W = (-4) \times 0,13 \times (-7) \times (-25)$$

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**Exercice 11 : Calculer astucieusement :**

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$$A = (-3) \times (-3) \times (-3) \times (-3)$$

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$$B = (-2) \times 0,25 \times 75 \times (-4) \times 4$$

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$$C = -3,02 \times (-20) \times 3 \times 5 \times (-1)$$

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$$D = -4,53 \times 2 \times (-0,001) \times 5$$

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**Exercice 12 : Calculer astucieusement**

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$$A = -8,2 \times (-25) \times (-4)$$

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$$B = -0,25 \times 12,5 \times 4 \times (-2) \times (-5)$$

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$$C = 5 \times (-25) \times (-20) \times 40 \times (-0,1)$$

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$$D = (-0,5) \times (-10) \times (-2) \times 0,65 \times 2,5 \times (-4)$$

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$$E = (-10) \times 8 \times (-12,5) \times 0,452$$

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$$F = -2 \times 15,7 \times (-2) \times (-25)$$

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**Exercice 13 : Donner le signe des quotients suivants :**

$$\frac{-2}{5}$$

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$$\frac{3}{-8}$$

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$$\frac{13}{4}$$

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$$\frac{-35}{-17}$$

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**Exercice 14 : Donner le signe des quotients suivants :**

$$\frac{-5}{-3}$$

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$$\frac{-21}{8}$$

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$$\frac{235}{-9}$$

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$$\frac{-54}{-8}$$

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**Exercice 15 : Donner le signe des quotients suivants sans les calculer :**

$$A = (-3) \div (-8)$$

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$$C = \frac{-3}{-8}$$

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$$B = (+1) \div (-2)$$

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$$D = (-4) \div (-5)$$

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$$E = (-3,7) \div (+5,1)$$

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$$F = \frac{-2,5}{-7,4}$$

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**Exercice 16 : Donner le signe des quotients suivants sans les calculer :**

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a. 0,4 par -2,8

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c. -18 par -94

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b. -18 par -94

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d. 737 par -521

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**Exercice 17 : Calculer les quotients suivants :**

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$$D = 42 \div (-7)$$

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$$E = (-45) \div (-9)$$

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**Exercice 18 : Calculer les quotients suivants :**

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$$F = \frac{-5}{-4}$$

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$$G = \frac{-21}{8}$$

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$$H = \frac{235}{-5}$$

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$$I = \frac{-54}{-8}$$

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**Exercice 19 : Calculer les quotients suivants :**

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$$A = 40 \div (-5)$$

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$$D = (-25) \div 25$$

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$$B = (-32) \div (-8)$$

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$$E = -54 \div (-6)$$

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$$C = 46 \div (-1)$$

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$$F = (-42) \div (-7)$$

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**Exercice 20 : Calculer les quotients suivants :**

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$$A = (-38) \div (+2)$$

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$$E = (+60) \div (+6)$$

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$$B = -36 \div (-6)$$

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$$F = 49 \div (-7)$$

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$$C = +45 \div (-9)$$

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$$G = (-100) \div (-4)$$

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$$D = (-9) \div (+0,5)$$

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$$H = (-30) \div (-0,25)$$

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**Exercice 21 : Calculer les quotients suivants :**

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$$A = 64 \div (-100)$$

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$$B = 4,5 \div 10$$

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$$C = -32 \div 100$$

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$$E = -1,23 \div (-100)$$

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$$D = -37 \div (-1000)$$

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$$F = -5,7 \div (-0,01)$$

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**Exercice 22 : Calculer les quotients suivants :**

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a.  $(-27) \div (+9) =$  \_\_\_\_\_

d.  $(-55) \div (-5) =$  \_\_\_\_\_

b.  $(-24) \div (+4) =$  \_\_\_\_\_

e.  $(+15) \div (-10) =$  \_\_\_\_\_

c.  $(+8) \div (-8) =$  \_\_\_\_\_

f.  $(+4) \div (-8) =$  \_\_\_\_\_

**Exercice 23 : Compléter les quotients sans poser les opérations.**

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a.  $24 \div \dots\dots\dots = -8$

g.  $\dots\dots\dots \div 2,5 = -100$

b.  $(-24) \div \dots\dots\dots = -12$

h.  $\dots\dots\dots \div 25 = -5$

c.  $-18 \div \dots\dots\dots = -6$

i.  $\dots\dots\dots \div 5 = 100$

d.  $25 \div \dots\dots\dots = -5$

j.  $\dots\dots\dots \div (-1) = 100$

e.  $-42 \div \dots\dots\dots = 6$

k.  $\dots\dots\dots \div (-20) = -80$

f.  $-16 \div \dots\dots\dots = 32$

l.  $\dots\dots\dots \div (-7) = 35$

**Exercice 24 : Calculer les quotients suivants :**

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a.  $34 \div (-5) =$  \_\_\_\_\_

b.  $(-32) \div (-8) =$  \_\_\_\_\_

c.  $46 \div (-1) =$  \_\_\_\_\_

d.  $(-25) \div 25 =$  \_\_\_\_\_

e.  $(-105) \div (-3) =$  \_\_\_\_\_



**Exercice 25 : Effectuer les calculs suivants**

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$$A = 15 + 5 \times (-8)$$

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$$B = (-8) \div 4 - 5$$

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$$C = 19 - 12 \div (-4)$$

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$$D = -10 + 10 \times (-4)$$

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$$E = \frac{-9 \times 4}{6 \times (-2)}$$

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$$F = \frac{-3 - 6 \times (-3)}{2 \times (-3)}$$

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$$G = (15 + 5) \times (-8)$$

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$$H = (-8) \div (4-5)$$

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$$I = 8 \times (-2) - 9 \div (-3)$$

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$$J = (-10 + 10) \times (-4)$$

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$$K = (19 - 12) \div (-4)$$

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$$L = \frac{9 + 5 \times (-3)}{(-2) \times (-3)}$$

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**Exercice 26 : Effectuer les calculs suivants**

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$$A = 3,5 \div (-4 \times 8 + 25)$$

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$$B = (8 - 10) \times (-3) + 3$$

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$$C = [ (-4) \times (-2 - 1) + (-8) \div (-4) ] \times (-2) + 2$$

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**Exercice 27 : Effectuer les calculs suivants**

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$$A = 7 + (-6) \times (-6)$$

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$$B = 13 - (+3) \times (-4) - 8$$

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$$C = -30 \div (-9 + 15)$$

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$$D = -3 - 9 \times (-3)$$

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$$E = -3 \times 6 \times (-2 + 8)$$

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**Exercice 28 : Effectuer les calculs suivants**

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$$A = -22 + (13 - 5) \times (-5)$$

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$$B = (-2) \times (-8) + 2 \times (-20) \div 4$$

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$$C = -28 + (5-2) \times (-4)$$

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$$D = 7 \times (-7) + 3 \times (-25) \div (-5)$$

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$$E = -3,2 \times (-6) \times (-2,3 - 7,7)$$

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$$F = 150 \div (-1,2 - 9 \times 3,2)$$

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**Exercice 29 : Calculer les expressions suivantes.**

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$$A = 3 - 4 \times (5 - 2)$$

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$$B = 3 \times 4 - 2 \times (4 - 1)$$

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$$C = 5 - 2 \times 3 + 2 \times 7$$

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$$D = - 3 + (1 - 5) \times (-6)$$

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$$E = 1 - 2 \times 3 + 2 \times 7$$

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$$F = 1 + (-2)^2 - (-3)^2$$

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**Exercice 30 : Calculer les expressions suivantes.**

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$$A = -5 + 3 \times 5$$

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$$B = 7 - 4 \times 6$$

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$$C = 18 - 7 \div 4$$

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$$D = -2 \times 6 + 3 \times (-8)$$

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**Exercice 31 : Calculer**

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

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$$B = -6 - 5 (8 \div 2 - 3)$$

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$$C = (-5) \times (-4) - (10 - 14) \times 3$$

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$$D = 16 \times 2 \div 4 - 16$$

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$$E = -5 \div 10 \times 12 + 50$$

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$$F = 13 - 5 \times (-6) + 36 \div (-9)$$

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**Exercice 32 : Un cocktail de calculs !**

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

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$$B = -30 \div (-4 + 6)$$

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$$C = 5 - (-4) \times (-4)$$

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$$D = 5 - 4 \times (-4)$$

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$$J = (-2) \times (-5) - (-5)^2$$

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$$K = (-5) \times (-3) - 4 \times (-6) - 1$$

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$$L = 6 \times (-2) - 3 \times (-3) \times (-1) \times (-2)$$

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**Exercice 33 : Calculer en détaillant les étapes du calcul**

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$$A = 3 - 4 \times 5$$

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$$B = (3 - 4) \times 5$$

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$$C = (-2) \times 5 - 8$$

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$$D = (-2) \times (5 - 8)$$

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**Exercice 34 : Calculer en détaillant les étapes du calcul**

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$$A = -7 + 5 \times (-6)$$

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$$B = (-7 + 5) \times (-6)$$

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$$C = 4 \times 8 - (-9)$$

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$$D = 4 \times [ 8 - (-9) ]$$

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**Exercice 35 : Calculer en détaillant les étapes du calcul**

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$$A = 9 - 12 \div 3$$

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$$B = (9 - 12) \div 3$$

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$$C = - 36 \div 6 - 2$$

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$$D = - 36 \div (6 - 2)$$

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**Exercice 36 : Calculer en détaillant les étapes du calcul**

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$$A = 15 - 6 \times (-8)$$

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$$B = - 12 + 27 \div (-3)$$

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$$C = (-8 + 36) \div (-4)$$

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$$D = 7 \times (12 - 18)$$

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**Exercice 37 : Calculer en détaillant les étapes du calcul**

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$$A = (-3) \times 2 + 6 \times (-4)$$

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$$B = (-3) \times (2-6) \times (-4)$$

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$$C = 4 \times [ -6 + (-8) ] - 10$$

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$$D = - 56 \div (-7) + 2 \times (-4)$$

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AND  
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