

## AP Calculus de nombres relatifs

### Exercice 1

$$A = (-10)$$

$$B = (+20)$$

$$C = (-10)$$

$$D = 6$$

$$E = (-3)$$

$$G = 7$$

$$H = (-6)$$

### Exercice 2

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

$$A = (-3) \times (-6)$$

$$A = +18$$

$$B = (-5 - 2) \times (-7 + 3)$$

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

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

$$B = 28$$

$$C = (-36) : (-5 - 4)$$

$$C = (-36) : (-9)$$

$$C = (+4)$$

$$D = (-5) + (-2) \times (-3)$$

$$D = (-5) + (+6)$$

$$D = (+1)$$

$$E = (-3) \times (-8) + 14$$

$$E = 24 + 14$$

$$E = 38$$

$$F = 16 : (-8) + (-8)$$

$$F = (-2) + (-8)$$

$$F = (-10)$$

$$G = (-24) : (-6) - (-7)$$

$$G = 4 + (+7)$$

$$G = 11$$

$$H = (-6) + 3 \times (-9)$$

$$H = (-6) + (-27)$$

$$H = (-33)$$

$$I = -9 - \underline{5 \times -3}$$

$$I = -9 + 15$$

$$I = +6$$

$$J = 9 - \underline{(-7-4)}$$

$$J = 9 - (-11)$$

$$J = 9 + (+11)$$

$$J = 20$$

$$K = -10 - \underline{(5-8)}$$

$$K = -10 - (-3)$$

$$K = -10 + (+3)$$

$$K = -7$$

Exercise 3:

$$A = -8 + (-6) \times (-3)$$

$$A = -8 + 18$$

$$A = 10$$

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

$$B = 4 + 24$$

$$B = 28$$

$$C = -14 : (-7) - 4 \times (-2)$$

$$C = 2 + 8$$

$$C = 10$$

$$D = -5 \times \underline{(-8-6)}$$

$$D = -5 \times (-14)$$

$$D = +70$$

$$E = 7 + (-6 + 14) \times (-5)$$

$$E = 7 + 8 \times (-5)$$

$$E = 7 - 40$$

$$E = -33$$

$$F = 7 - 7 \times (3 - 4 \times 2)$$

$$G = 7 - 7 \times (3 - 8)$$

$$G = 7 - 7 \times (-5)$$

$$G = 7 + 35$$

$$G = 42$$

$$H = \frac{-4 \times 3}{-5 - (-2)}$$

$$H = \frac{-12}{-3}$$

$$H = 4$$

$$I = -2 + \frac{-18}{3} \times (-4)$$

$$I = (-2) + (-6) \times (-4)$$

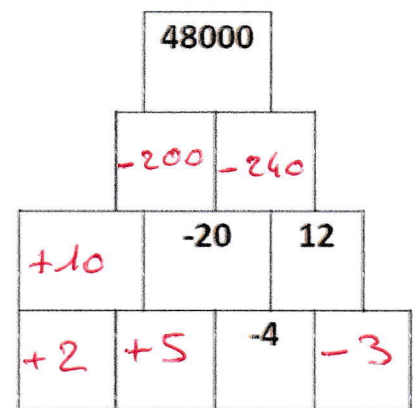
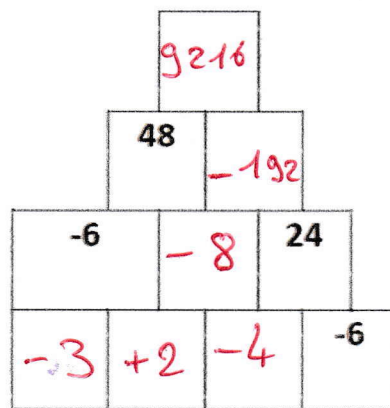
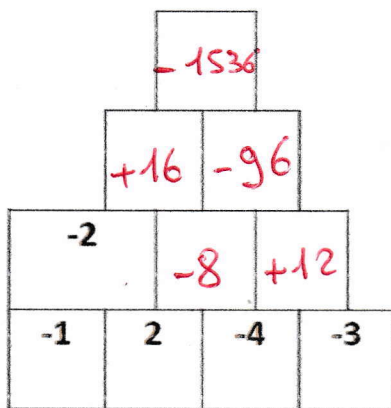
$$I = (-2) + 24$$

$$I = 22$$

$$\begin{aligned}
 J &= -6 - (-25 - 5 \times (-4)) \\
 J &= -6 - (-25 + 20) \\
 J &= -6 - (-5) \\
 J &= -1
 \end{aligned}$$

#### Exercice 4 :

Dans ces pyramides, chaque nombre situé dans une case est égal au produit des deux nombres situés juste en dessous. Compléter chaque pyramide.



#### Repli 1 :

Dans chaque cas, recopier et placer des parenthèses pour que l'égalité soit vraie.

Vérifier ensuite en détaillant les calculs sur son cahier.

- 1)  $(14 - 4) \times (6 - 1) = 50$
- 2)  $27 - 2,5 \times (8,5 - 4,5) = 17$
- 3)  $(15 - 25) \times 2,4 + (7 - 3) \times 2 = -16$

#### Repli 2 :

Effectuer les calculs suivants en détaillant les étapes.

$$A = -5 + 8 \times (-2) + 6 \quad ; \quad B = 4 - 7 \times (-3 + 4 \times 2) \quad ; \quad C = 8 \times (-2) \div (-3 - 7)$$

$$D = (-3 - 6) \times (6 - 8) \quad ; \quad E = 5 - [-12 - 2 \times (-5)] \quad ; \quad F = (6 \times 5 - 3) \times (7 - 2 \times 6)$$

$$G = 40 - [28 - (3 \times 7 + 10)] \quad ; \quad H = 7 - 3 \times [4 - 2 \times (-3)]$$