

**GLOBAL 2<sup>a</sup> EVALUACIÓN**

1.- Calculate HCF and LCM of: (1 punto)  
 a) 150 and 60      b) 126 and 66

2.- Calculate (remember order of operations): (2 puntos)  
 a)  $[-5+2] \times (-1) - (-7) =$   
 b)  $(3-2)^2 - (-6) \times (+2) =$   
 c)  $(-10) : (+2) + (-3) \times (+2) - 4 =$   
 d)  $3 \times [-3+2]^3 + 8 : 2 - (+3) \times (-3) =$

3.- Calculate: (1,5 puntos)  
 a)  $2^2 \cdot 3^2 =$   
 b)  $(-1)^7 \cdot (-1)^3 =$   
 c)  $(-3)^3 : (-3)^2 =$

4.- Arrange in ascending order: (1 punto)  
 $-3,23; 0,124; -3,235; 0; -3,1; 0,15; 0,257; 0,242; -3,07; -3,12$



5.- Work out these operations: (1,5 puntos)

a) $3,2507 \times 100 =$	b) $16,1304 : 100 =$
c) $1874,32 : 1000 =$	d) $0,4783 \times 10000 =$

6.- Round to the nearest hundredths: (1,5 puntos)

a) $1,3275 \rightarrow$	b) $-23,0521 \rightarrow$
c) $-0,3247 \rightarrow$	d) $115,9956 \rightarrow$

7.- Un camión transporta 3 bloques de mármol de 1,3 toneladas cada uno y 2 vigas de hierro de 0,5 toneladas cada una. (1,5 puntos)

Calcula:

- a) El total de toneladas que transporta el camión.
- b) El total de kilos que transporta el camión, si 1 tonelada es igual a 1.000 kilos.

8.- Fill in the gaps:

- a)  $5^3$  is five .....
- b)  $10 < 100$  ten is ..... than a hundred and a hundred is ..... than 10
- c) A power is  $a^n$ . The name of  $a$  is ..... and the name of  $n$  is .....

9.- Bob had 6.00 €. He bought an ice cream for 2.55€ and a bag of chips for 0.75 €. How much money did he have left?



**SOLUCIONES**

1.- Calculate HCF and LCM of:

a) 150 and 60

$$\begin{array}{r|rr}
 150 & 2 & 60 \\
 75 & 3 & 30 \\
 25 & 5 & 15 \\
 5 & 5 & 5 \\
 1 & & 1
 \end{array}
 \quad
 \begin{array}{l}
 150 = 2 \cdot 3 \cdot 5^2 \\
 60 = 2^2 \cdot 3 \cdot 5 \\
 \text{HCF} = 2 \cdot 3 \cdot 5 = 30 \\
 \text{LCM} = 2^2 \cdot 3 \cdot 5^2 = 300
 \end{array}$$

b) 126 and 66

$$\begin{array}{r|rr}
 126 & 2 & 66 \\
 63 & 3 & 33 \\
 21 & 3 & 11 \\
 7 & 7 & 1 \\
 1 & &
 \end{array}
 \quad
 \begin{array}{l}
 126 = 2 \cdot 3^2 \cdot 7 \\
 66 = 2 \cdot 3 \cdot 11 \\
 \text{HCF} = 2 \cdot 3 = 6 \\
 \text{LCM} = 2 \cdot 3^2 \cdot 7 \cdot 11 = 1386
 \end{array}$$

2.- a)  $[-5+2] \times (-1) - (-7) = (-3) \times (-1) + 7 = 3 + 7 = 10$

b)  $(3-2)^2 - (-6) \times (+2) = 1^2 - (-12) = 1 + 12 = 13$

c)  $(-10) : (+2) + (-3) \times (+2) - 4 = -5 + (-6) - 4 = -5 - 6 - 4 = -15$

d)  $3 \times [-3+2]^3 + 8 : 2 - (+3) \times (-3) = 3 \times (-1)^3 + 4 - (-9) = -3 + 4 + 9 = 10$

3.- a)  $2^2 \cdot 3^2 = 6^2 = 36$

b)  $(-1)^7 \cdot (-1)^3 = (-1)^{10} = 1$

c)  $(-3)^3 : (-3)^2 = (-3)^1 = -3$

4.- Arrange in ascending order:

 $-3,23; 0,124; -3,235; 0; -3,1; 0,15; 0,257; 0,242; -3,07; -3,12$  $-3,235 < -3,23 < -3,12 < -3,1 < -3,07 < 0 < 0,124 < 0,15 < 0,242 < 0,257$ 

5.- Work out these operations:

a) $3,2507 \times 100 = 325,07$	b) $16,1304 : 100 = 0,161304$
c) $1874,32 : 1000 = 1,87432$	d) $0,4783 \times 10000 = 4783$

6.- Round to the nearest hundredths:

a) $1,3275 \rightarrow 1,33$	b) $-23,0521 \rightarrow -23,05$
c) $-0,3247 \rightarrow -0,32$	d) $115,9956 \rightarrow 116$

7.- Un camión transporta 3 bloques de mármol de 1,3 toneladas cada uno y 2 vigas de hierro de 0,5 toneladas cada una.

Calcula:

- El total de toneladas que transporta el camión.
- El total de kilos que transporta el camión, si 1 tonelada es igual a 1.000 kilos.

a)  $3 \times 1,5 = 4,5$

$2 \times 0,5 = 1$        $4,5 + 1 = 5,5$  toneladas transporta el camión

b)  $5,5 \times 1000 = 5500$  kilos transporta el camión

8.- Fill in the gaps:

d)  $5^3$  is five *cubed (or to the power of three)*

e)  $10 < 100$  ten is *less* than a hundred and a hundred is *greater* than 10

f) A power is  $a^n$ . The name of *a* is *base* and the name of *n* is *exponent*

9.- Bob had 6.00 €. He bought an ice cream for 2.55€ and a bag of chips for 0.75 €. How much money did he have left?

$6.00 - 2.55 = 3.45$        $3.45 - 0.75 = 2.7$

He has 2.7 euros