

# GLOBAL 1ª EVALUACIÓN

Name: .....

1.- Calculate HCF and LCM of: (1 point)

- a) 130 and 52                      b) 56 and 49

2.- Calculate (remember order of operations): (2 points)

a)  $[-7 + 3] \div (-1) - (-4) =$

b)  $(3 - 1)^2 - (-5) \times (+2) =$

c)  $2 \times [-2 + 1]^3 + 6 \div 3 - 5 \times 2 =$

d)  $(-12) : (+4) + 3 \times (-2) - (-1) \times 7 =$

3.- Calculate: (0.75 points)

a)  $2^2 \cdot 2^4 =$

b)  $(-1)^3 \cdot (-2)^3 =$

c)  $5^3 \div 5^2 =$

4.- Complete: (0.75 points)

$(+10)^0 =$	$(-1)^{11} =$	$-3^4 =$
$(-3)^4 =$	$\sqrt{+16} =$	$\sqrt{-9} =$

5.- Arrange in ascending order: (0.75 points)

-3.231; 0.125; -3.23; 0; -3.11; 0.12; 0.1255; 0.24; -3.05; -3.12

6.- Work out these operations:

(0.75 points)

a) $3.5076 \times 100 =$	b) $6.138 \div 100 =$
c) $851.315 \div 1000 =$	d) $0.1473 \times 10000 =$

7.- Round to the nearest thousandths:

(0.75 points)

a) $1.32781 \rightarrow$	b) $-23.0521 \rightarrow$
c) $-0.3247 \rightarrow$	d) $115.99564 \rightarrow$

8.- A T-shirt costs £23.60 and a pair of trousers costs £35.80. Álvaro has got £50 and he wants to buy the shirt and the pair of trousers. Is it possible? Why? (0.75 points)



9.- This week Marta has worked 37 hours. She earns 12 euros per hour. How much has she earned this week? (0.75 points)



10.- Calculate  $\sqrt{3129}$  with two decimal places

(1 point)

11.- Place each number on the corresponding line: -1.3; 0.7; 2.25

(0.75 points)



KEY

1.- Calculate HCF and LCM of:

a) 130 and 52

b) 56 and 49

130	2	52	2		56	2	49	7
65	5	26	2		28	2	7	7
13	13	13	13		14	2	1	
1		1			7	7		
					1			

$$130 = 2 \times 5 \times 13; \quad 52 = 2^2 \times 13$$

$$56 = 2^3 \times 7; \quad 49 = 7^2$$

$$\text{HCF}(130, 52) = 2 \times 13 = 26$$

$$\text{HCF}(56, 49) = 7$$

$$\text{LCM}(130, 52) = 2^2 \times 5 \times 13 = 260$$

$$\text{LCM}(56, 49) = 2^3 \times 7^2 = 392$$

2.- a)  $[-7 + 3] \div (-1) - (-4) = (-4) \div (-1) + 4 = 4 + 4 = 8$

b)  $(3-1)^2 - (-5) \times (+2) = 2^2 - (-10) = 4 + 10 = 14$

c)  $2 \times [-2 + 1]^3 + 6 \div 3 - 5 \times 2 = 2 \times (-1)^3 + 2 - 10 = -2 + 2 - 10 = -10$

d)  $(-12) : (+4) + 3 \times (-2) - (-1) \times 7 = -3 + (-6) - (-7) = -3 - 6 - (-7) = -2$

3.- Calculate:

a)  $2^2 \cdot 2^4 = 2^6 = 32$

b)  $(-1)^3 \cdot (-2)^3 = ((-1) \times (-2))^3 = 2^3 = 8$

c)  $5^3 \div 5^2 = 5^1 = 5$

4.- Complete:

$(+10)^0 = 1$	$(-1)^{11} = -1$	$-3^4 = -81$
$(-3)^4 = 81$	$\sqrt{+16} = \pm 4$	$\sqrt{-9} = \text{NO}$

5.- Arrange in ascending order:

$-3.231; 0.125; -3.23; 0; -3.11; 0.12; 0.1255; 0.24; -3.05; -3.12$

$$-3.231 < -3.23 < -3.12 < -3.11 < -3.05 < 0 < 0.12 < 0.125 < 0.1255 < 0.24$$

6.- Work out these operations:

a) $3.5076 \times 100 = 350.76$	b) $6.138 \div 100 = 0.06138$
c) $851.315 \div 1000 = 0.851315$	d) $0.1473 \times 10000 = 1473$

7.- Round to the nearest thousandths:

a) 1.32781 → 1.328	b) -23.0521 → -23.052
c) -0.3247 → -0.325	d) 115.99564 → 115.996

8.- A T-shirt costs £23.60 and a pair of trousers costs £35.80. Álvaro has got £50 and he wants to buy the shirt and the pair of trousers. Is it possible? Why?

$$23.60 + 35.80 = 59.40$$

$$59.40 > 50$$

It is not possible, he needs £9.40

9.- This week Marta has worked 37 hours. She earns 12 euros per hour. How much has she earned this week?



$$37 \times 12 = 444$$

She has earned 444 euros this week

10.- Calculate  $\sqrt{3129}$  with two decimal places

$\sqrt{3129}$	55.93
-25	$5 \times 5 = 25$
629	$105 \times 5 = 525$
-525	$1109 \times 9 = 9981$
10400	$11183 \times 3 = 33549$
- 9981	
41900	

11.- Place each number on the corresponding line: -1.3; 0.7; 2.25

