

## EXAMEN NÚMEROS ENTEROS (INTEGERS)

1.- Work out these operations:

a)  $[2 - 5] : (-3) + 7 =$

b)  $3x(-2) - (-5)x(+1) + 7x(-2) =$

c)  $(-4)x[(-2) + (-3)] + 12 : 6 =$

d)  $2x(-1) + (-6)x(+2) - (-4)x3 =$

e)  $-8 - (-3) + 2x(-3) - (-9) =$

2.- Calculate HCF and LCM of:

a) 162 and 72

b) 208 and 160

3.- Arrange in ascending order:

-1, +8, 0, -10, -5, 6, +1, -12, 7

4.- Arrange in descending order:

-12, +5, 1, -10, +6, 13, -7, -13, 11

5.- Fill in the gaps:

a)  $x^2$  is  $x$  .....

b) 2,4,6,8 are ..... numbers

c)  $2 < 4$  2 is .....4

d)  $-1 > -5$  -1 is ..... -5

## SOLUCIONES

1.- Work out these operations:

a)  $[2 - 5] : (-3) + 7 = (-3) : (-3) + 7 = 1 + 7 = 8$

b)  $3x(-2) - (-5)x(+1) + 7x(-2) = -6 - (-5) + (-14) = -6 + 5 - 14 = -15$

c)  $(-4)x[(-2) + (-3)] + 12 : 6 = (-4)x(-5) + 2 = 20 + 2 = 22$

d)  $2x(-1) + (-6)x(+2) - (-4)x3 = -2 + (-12) - (-12) = -2 - 12 + 12 = -2$

e)  $-8 - (-3) + 2x(-3) - (-9) = -8 + 3 + (-6) + 9 = -8 + 3 - 6 + 9 = -2$

2.- Calculate HCF and LCM of:

a) 162 and 72

162	2	72	2	$162 = 2 \cdot 3^4$ $72 = 2^3 \cdot 3^2$  HCF = $2 \cdot 3^2 = 18$ LCM = $2^3 \cdot 3^4 = 648$
81	3	36	2	
27	3	18	2	
9	3	9	3	
3	3	3	3	
1		1		

b) 208 and 160

208	2	160	2	$208 = 2^4 \cdot 13$ $160 = 2^5 \cdot 5$  HCF = $2^4 = 16$ LCM = $2^5 \cdot 13 \cdot 5 = 2080$
104	2	80	2	
52	2	40	2	
26	2	20	2	
13	13	10	2	
1		5	5	
		1		

3.- Arrange in ascending order:

-1, +8, 0, -10, -5, 6, +1, -12, 7

$$-12 < -10 < -5 < -1 < 0 < +1 < 6 < 7 < +8$$

4.- Arrange in descending order:

-12, +5, 1, -10, +6, 13, -7, -13, 11

$$13 > 11 > +6 > +5 > 1 > -7 > -10 > -12 > -13$$

5.- Fill in the gaps:

a)  $x^2$  is **x squared**b) 2,4,6,8 are **even** numbersc)  $2 < 4$  2 is **less than** 4d)  $-1 > -5$  -1 is **greater than** -5