EXAMEN DIVISIBILIDAD Y NÚMEROS ENTEROS - 1º ESO - MODELO B

Exercise 1: (0.5 points) True or false? Justify your answer:

a) 28 is a multiple of 7
b) 30 is a divisor of 6

Exercise 2: (0.75 points) Find a value of x so these numbers can be divided by the figure given:

a) 4932x divided by 11
b) 8x237 divided by 5
c) 54739x divided by 3

Exercise 3: (1 point) Can the following numbers be divided by 2, 3, 5, 10 or 11?

a) 21340
b) 1527
c) 83
d) 2475

Exercise 4: (2 points) Calculate:

a) lcm (36, 100) =
b) hcd (49, 81)=
c) lcm (12, 50, 63) =
d) hcd (28, 84, 70) =

Exercise 5: (1 point) I have 75 pineapple juice tetra-bricks, 150 orange juice tetra-bricks and 100 red berries juice tetra-bricks. I want to pack them in boxes with the same number of tetra-bricks, without mixing the different flavours. How many bricks will I have in each box?

Exercise 6: (1 point) Classify and draw on the number line:

-3 7 5 0 -4 -1 -7 10

Exercise 7: (1 point) Work out the value of the following expressions:

a) -7 -1 -9 -3 =
b) (-5) · (+7) =
c) +3 + 7 =
d) (-21) : (-7) =

Exercise 8: (0.75 points) A man was born on the year 42 b.C. and died on the year 27. How old was he when he died?

Exercise 9: (2 points) Work out the value of the following expressions:

a) -3 +7 +1 -8 +3 -4 +5 -9 =
b) -(-5) +(-2) -(+7) +(+8) =
c) (3-5) - (4-9) + (10-8) - (6-1) =
d) 3 + 7 · (5 - 6) - (2 -10) : (+4) =
e) (-2)·(5-8)- (-3)·(8-6) =
f) -3 · (5 -7) -2 · [(-4 + 6) - (6 + 5)] =