

## INTEGER NUMBERS AND PROPORTION TEST - 1º ESO

**Exercise 1: (0.75 points)** A man was born on the year 65 b.C. and died on the year 23 b.C. How old was he?

**Exercise 2: (1 point)** Work out:

a)  $-3-4=$

b)  $(-5)^2=$

c)  $(-1)^{15}=$

d)  $-3+7=$

**Exercise 3: (2 points)** Work out:

a)  $5-3\cdot(-2)+12:(-6)=$

b)  $-(+7)-(-2)+(-4)+(3)=$

c)  $-(7-4\cdot3)-(-5)\cdot2+(-3)^2=$

d)  $8-15:(-3)-(-2)\cdot(-4)=$

**Exercise 4: (0.75 points)** Quiero comprarme un ordenador y en el Black Friday lo encontré con un 25% de descuento. Si el precio original era de 900€, ¿cuánto vale después de la rebaja?

**Exercise 5: (1 point)** A sheep running at a speed of thirty km/h can cross a field in twelve minutes. How long would it take them to cross the same field if the speed was twenty km/h?

**Exercise 6: (1.5 points)** Fill in the gaps and find the value of the constant knowing that the following magnitudes are:

a) Directly proportional:

	5	25		75	
8		5	2		0.7

b) Inversely proportional:

2	10			0.5	
	8	1	4		16

**Exercise 7: (1 point)** Jan runs 120m in 20 seconds.

a) How long does she need to run 60m?

b) What distance can she run in 50 seconds?

**Exercise 8: (1 point)** Pedro tiene 20€. Se gasta 12 en una camiseta, 5 en una hamburguesa y un refresco y 2 en chuches. Al salir del centro comercial se encuentra un billete de cinco euros en el suelo y decide volver a por una funda de móvil que cuesta 7€. ¿Cuánto dinero le sobra?

**Exercise 9: (1 point)** Find the value of x

a)  $\frac{x}{21} = \frac{3}{7}$

b)  $\frac{20}{9} = \frac{x}{27}$