

INTEGER NUMBERS AND PROPORTION TEST - 1º ESO - A

Exercise 1: (1 point) Louise is paid €8 per hour.

- a) How much does she earn if she works for 37 hours?
- b) How many hours does she have to work to earn €1000?

Exercise 2: (1 point) A farmer has enough hay to feed his forty sheep for thirty days.

- a) If he buys twenty more sheep, how long will the food last?
- b) If he wants to have food for sixty days, what does he have to do?

Exercise 3: (0.75 points) Fill in the gaps knowing that the following magnitudes are directly proportional and find the constant k:

	1	0.1		3	2	
49			56	21		4.2

Exercise 4: (0.75 points) Fill in the gaps knowing that the following magnitudes are inversely proportional and find the constant k':

3		6	21		0.5	
	1	7		4		294

Exercise 5: (0.8 points) Determine if the following amounts are directly or inversely proportional

- a) The tickets I sell for a concert and the money I get
- b) The price of a pencil and the number of pencils that I can buy with €2
- c) The distance to my house and the time it takes me to get there
- d) The number of people inside a car and the number of kilometers it can travel

Exercise 6: (0.75 points) La leche ha subido un 20% el último año. Si su precio ahora es de un euro el litro, ¿cuánto costaba antes?

Exercise 7: (1.5 points) Work out:

- a) $-5 - 2 =$
- b) $2 - 8 =$
- c) $-3 \cdot (-4) =$
- d) $12 : (-3) =$
- e) $(-5)^2 =$
- f) $(-2)^3 =$

Exercise 8: (1.5 points) Work out:

- a) $-7 + 15 : (-3) - 4 \cdot (-2) + (-3)^2 =$
- b) $4 - (-2) \cdot (+5) - 20 : (-4) - (-1)^{15} =$
- c) $-4 + 7 - 8 - 9 + 5 - 7 + 2 - 1 + 6 =$

Exercise 9: (1 point) Alejandro Magno nació en el año 356 a.C. y murió en el año 323 a.C. ¿Cuántos años tenía cuando murió? ¿Cuánto ha pasado desde su muerte?

Exercise 10: (1 point) Este mes he tenido que pagar 250 euros de alquiler, 75 euros de luz y 20 euros de agua. Además, me he gastado 80 euros en un abrigo. Si me han pagado 300 euros que me debían y me han tocado 50 euros en la lotería, ¿cuánto dinero tengo ahora?