PROPORTION TEST – 1º ESO

1) Louise is paid €8.5 per hour.
    a) How much does she earn if she works for 37.5 hours?
    b) How many hours does she have to work to earn €1000?

2) A farmer has enough fodder to feed his twenty cows for sixty days.
    a) If he buys ten more cows, how long will the food last?
    b) If he wants to have food for seventy-five days, what does he have to do?

3) Fill in the gaps knowing that the following amounts are directly proportional:

1		2		3	0.1	
	49		56	21		4.2

4) Fill in the gaps knowing that the following amounts are inversely proportional:

1	3	6			0.5	
		7	4	21		105

5) Determine if the following amounts are directly proportional, inversely proportional, or there's no relationship between them:
    a) The tickets I sold for a raffle and the money I got
    b) The size of a glass and the number of glasses I can fill with a 2l bottle
    c) The distance to my house and the time it takes me to get there
    d) The number of hours I work and the money I get
    e) The number of people inside a car and the number of kilometers it can travel

6) A van traveling at a speed of 60km/h needs 15 minutes to cover a distance. How much time would it need if the speed was 75km/h?

7) In a map 2 cm = 3 km. What's the real distance between two cities that are 8 cm apart on the map?

8) The price of a shirt was €25, but I got a discount of 20%. How much did I pay for the shirt?

9) El 25% de los 850 alumnos de un colegio tuvieron la gripe el mes pasado. ¿Cuántos estudiantes no la cogieron?

10) Me han subido el IVA un 5% en lo que va de año. Si un libro costaba 20 euros, ¿cuánto tendré que pagar ahora por él?