FRACTIONS AND PROPORTION TEST - 2º ESO

Exercise 1: (1 point) Tenía el dinero de la excursión en el bolsillo, pero me he gastado dos tercios en un jersey chulísimo y luego tres quintos de lo que quedaba en una camiseta negra con una oveja. Me han sobrado ocho euros. ¿Cuánto dinero llevaba?

Exercise 2: (0.75 points) In a class we have thirty six students. One quarter play football and two sixths play basketball. The rest just play with their cell phone. How many students do each activity?

Exercise 3: (3 points) Work out:

a) $\left(\frac{2}{5}-\frac{1}{4}\right)^{-2}-\frac{5}{2}:\frac{3}{5}=$

b) $\left(3-\frac{2}{5}\cdot\frac{3}{7}\right)^{-1}-\frac{2}{9}=$

c) $\frac{2^{-3}\cdot 5^{4}\cdot 5^{-2}\cdot 2^{6}}{5^{-7}\cdot 2^{5}\cdot 5}=$

d) $\left(\sqrt{\frac{25}{16}}\right)^{-1}:\frac{3}{7}-\left(\frac{3}{2}\right)^{2}+2^{-2}=$

Exercise 4: (0.75 points) The price of a vacation trip has increased 20% this last year. If the price was €750, what is the price now?

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 150m?

b) What distance can she run in 35 seconds?

Exercise 8: (1 point) Divide 350€ in a directly proportional way to 2, 5 y 7