Subject 16

Please, do not write on the exam paper.

The following table gives the data concerning the age and region of life of the people of Great Britain in mid 2010 (source: www.ons.gov.uk).

	population in thousand	% of people under 16 (<16)	% of people over 65 (≥65)
U.K.	62,262.0		
England	52,234.0	18.7	16.5
Wales	3,006.4	18.2	18.6
Scotland	5,222.1	17.5	16.8
Northern Ireland	1,799.4	21.2	14.5

All the answers will be given in percentage rounded to the nearest tenth.

1.a) Compute the percentage of English people among the population of U.K.

1.b) Compute the percentage of Welsh people among the population of U.K.

1.c) Compute the percentage of Scottish people among the population of U.K.

1.d) Compute the percentage of Irish people among the population of U.K.

2) What is the percentage of people between 16 (included) and 65 (excluded) among the population of England ?

Suppose you come across someone from the U.K and ask for his or her region of life and age.

3) Draw a tree diagram showing all the outcomes and their probabilities.

4) a) Find the probability of meeting an Irish person who is over 65.

4) b) Knowing that the person you meet is Welsh, what is the probability that he or she may be under 16?

4) c) Compute the probability of meeting a person under 16.

4) d) Knowing that the person you meet is under 16, what is the probability that he or she may be Irish?

Nota :
to come across: rencontrer au hasard.