2004

1 (a) There are 240 eggs in a box.
2.5% of the eggs are broken.
Find the number of eggs that are broken.

   (b) The standard rate of income tax is 20% and the higher rate is 42%.
Orla has a gross income of €58 000 for the year and a standard-rate cut-off point of
€35 000.
   (i) Calculate the amount of tax due at the standard rate.

   (ii) Calculate the total amount of gross tax due.

   (iii) Orla has tax credits of €3400 for the year.
After tax is paid, what is Orla's income for the year?

   (c) A faulty petrol pump actually delivers 1.02 litres of petrol for every 1 litre that the
pump registers. During one day the pump registers 2650 litres.
   (i) What was the actual volume of petrol delivered?

   (ii) Customers paid 85 cent for every litre of petrol registered.
Find the total amount paid for the petrol.

   (iii) If the pump had registered the correct volume delivered, how much more
would have been paid?

ANSWERS
1   (a) 6
    (b) (i) €7,000   (ii) €16,660   (iii) €44,740
    (c) (i) 2704 litres   (ii) €2252.50   (iii) €45.05