

ARITHMETIC (Q 1, PAPER 1)

2010

1. (a) Express 40 metres as a fraction of 1 kilometre. Give your answer in its simplest form.

(b) (i) Calculate the value of

$$\frac{57.6 + 80.44}{1.3 \times 10^4}$$

and write your answer correct to three decimal places.

(ii) An importer buys an item for £221 sterling when the rate of exchange is €1 = £0.85 sterling.

He sells it at a profit of 14% of the cost price.

Calculate, in euro, the price for which he sells the item.

(c) (i) What sum of money invested at 5% per annum compound interest will amount to €8682 in 3 years?

Give your answer correct to the nearest euro.

(ii) A sum of € P was invested at r % per annum compound interest.

The interest for the first year was €220.

The interest for the second year was €228.80.

Calculate r and P .

ANSWERS

1 (a) (i) $\frac{1}{25}$

(b) (i) 0.011 (ii) €296.40

(c) (i) €7500 (ii) $r = 4, P = €5500$