

ARITHMETIC (Q 1, PAPER 1)

2001

- 1 (a) A cookery book gives the following instruction for calculating the amount of time for which a turkey should be cooked:

“Allow 15 minutes per 450 grammes plus an extra 15 minutes.”

For how many hours and minutes should a turkey weighing 9 kilogrammes be cooked?

- (b) (i) The answer to $3.58 + 2.47$ was given as 6.50.
What was the percentage error correct to one decimal place?

- (ii) Calculate the value of

$$\frac{3.1 \times 10^5 - 1.5 \times 10^4}{5.9 \times 10^6}$$

and write your answer as a decimal number.

- (c) IR£5000 was invested for 3 years at compound interest.

The rate for the first year was 4%. The rate for the second year was $4\frac{1}{2}\%$.

- (i) Find the amount of the investment at the end of the second year.

At the beginning of the third year a further IR£4000 was invested.

The rate for the third year was $r\%$.

The total investment at the end of the third year was IR£9811.36.

- (ii) Calculate the value of r .

ANSWERS

- 1 (a) 5 hrs 15 mins
(b) (i) 7.4% (ii) 0.05
(c) (i) £5434 (ii) 4