ARITHMETIC (Q 1, PAPER 1)

1998

1 (a) When a cyclist had travelled a distance of 12.6 km he had completed $\frac{3}{7}$ of his journey. What was the length of the journey?

(b) (i) At what rate of interest will IR£2000 amount to IR£2065 after one year?

(ii) Divide 357 grammes in the ratio $\frac{1}{2}:\frac{1}{4}:1$.

(c) A supplier agrees to buy 300 computer parts for 1060 Deutschmarks (DM) each. He plans to sell them for a total of IR£138,000.
   (i) Calculate the percentage profit (on the cost price) he will make if the exchange rate is IR£1 = DM 2.65?

(ii) By how much will the percentage profit (on the cost price) change if the exchange rate becomes IR£1 = DM 2.50? Give your answer correct to one place of decimals.

ANSWERS
1   (a) 29.4 km
     (b) (i) 3.25%   (ii) 102; 51;
     (c) (i) 15%   (ii) Decreases by 6.5%