

**ARITHMETIC (Q 1, PAPER 1)**

**1996**

- 1 (a) Express 250 m as a fraction of 1 km.
- (b) A tanker delivered heating oil to a school. Before the delivery the meter reading showed 11,360 litres of oil in the tanker. After the delivery, the meter reading was 7160 litres.  
Calculate the cost of the oil delivered if 1 litre of oil cost 20.5p.  
When VAT was added to the cost of the oil delivered, the bill to the school amounted to IR£1041.81.  
Calculate the rate of VAT added.
- (c) (i) Calculate the value of
- $$\frac{5.1 \times 10^8 + 19 \times 10^7}{1.4 \times 10^{12}}$$
- and write your answer as a decimal number.
- (ii) Calculate the percentage error if 5 is taken as an approximation for 4.95.  
Give your answer correct to two places of decimals.

**ANSWERS**

- 1 (a)  $\frac{1}{4}$   
(b) £861.00, 21%  
(c) (i) 0.0005 (ii) 1.01%