## Arithmetic (Q 1, Paper 1)

2005
1 (a) Express 35 cm as a fraction of 1 m . Give your answer in its simplest form.
(b) (i) The approximation $50 \times 80$ was used for the calculation $51 \times 79$. Find the percentage error, correct to one decimal place.
(ii) Express the ratio $\frac{1}{2}: \frac{1}{3}: \frac{1}{4}$ as a ratio of natural numbers.

Divide 325 in the ratio $\frac{1}{2}: \frac{1}{3}: \frac{1}{4}$.
(c) At the start of the year 2000 the population of a particular town was $P$. During the year 2000, the population of the town increased by $10 \%$.
(i) Express, in terms of $P$, the population of the town at the end of the year 2000.
(ii) During the year 2001 the population of the town increased by $4 \%$.

During the year 2002 the population increased by $2 \%$.
Find the total percentage increase in the population of the town over the three years.
(iii) The actual increase in the population was 8344 . Find the value of $P$.

## Answers

1 (a) $\frac{7}{20}$
(b) (i) 0.7
(ii) 6:4:3; 150, 100, 75
(c) (i) $1.1 P$
(ii) 16.688
(iii) 50,000

