## 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 $\frac{1}{2}$ : $\frac{1}{3}$ : $\frac{1}{4}$ .	
	<ul> <li>(c) At the start of the year 2000 the population of a particular town was <i>P</i>. During the year 2000, the population of the town increased by 10%.</li> <li>(i) Express, in terms of <i>P</i>, the population of the town at the end of the year</li> </ul>		
		<ul><li>(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.</li></ul>	
		(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 <i>P</i>	(ii) 16.688 (iii) 50,000			