ARITHMETIC (Q 1, PAPER 1)

LESSON NO. 2: RATIO & PROPORTION

2007
1 (a) Convert 164 miles to kilometres, taking 5 miles to be equal to 8 kilometres.

2006
1 (a) €320 is $\frac{4}{9}$ of a prize fund. Find the total prize fund.

2005
1 (b) (ii) Express the ratio $\frac{1}{2}:\frac{1}{3}:\frac{1}{4}$ as a ratio of natural numbers.

Divide 325 in the ratio $\frac{1}{2}:\frac{1}{3}:\frac{1}{4}$.

2002
1 (a) Copper and zinc are mixed in the ratio 19 : 6.
The amount of copper used is 133 kg.
How many kilogrammes of zinc are used?

1999
1 (a) IR£40 is divided between two pupils in the ratio 7:3. How much does each pupil get?

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

1997
1 (c) (i) The length and breadth of a rectangle are in the ratio 9:5, respectively.
The length of the rectangle is 22.5 cm. Find its breadth.

ANSWERS
2007 1 (a) 262.4 km
2006 1 (a) €720
2005 1 (b)(i) 6:4:3; 150, 100, 75
2002 1 (a) 42
1999 1 (a) £28; £12
1998 1 (a) 29.4 km (b) (ii) 102 g; 51 g; 204 g
1997 1 (c)(i) 12.5 cm