ARITHMETIC (Q 1, PAPER 1)

LESSON NO. 8: SPEED

 2003 1 (a) A train leaves Cork at 09:05 and arrives in Dublin at 12:25. The distance from Cork to Dublin is 250 km. Find the average speed of the train in km/h. 				
Solution Hours Minutes				
	12	25	$v = \frac{s}{t}$ 4	
	9	05	$v = \frac{1}{t}$	
	3	20		
s = 250 km				
$t = 3 \text{ hr } 20 \text{ min} = 3\frac{1}{3} \text{ hr}$				
$\therefore v = \frac{250 \text{ km}}{3\frac{1}{3} \text{ hr}} = 75 \text{ km/hr [Using calculator]}$				

1999

1 (b) A car journey of 559 kilometres took 6 hours and 30 minutes.

- (i) Calculate the average speed, in km/hr, for the journey.
- (ii) If the average petrol consumption for the journey was 8.3 kilometres per litre, calculate the number of litres of petrol used, correct to the nearest litre.

SOLUTION

1 (b) (i) Distance s = 559 km, time t = 6 hours 30 minutes = 6.5 hours, speed v = ?

$$v = \frac{559 \text{ km}}{6.5 \text{ h}} = 86 \text{ km/h}$$



1 (b) (ii) How many 8.3 km are contained in 559 km?

No. of litres $=\frac{559}{8.3}=67$ litres