ARITHMETIC (Q 1, PAPER 1)

2003

 (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. 		The distance from Cork to Dublin is 250 km.
	(b)	The present reading on the electricity meter in John's house is 63792 units. The previous reading was 62942 units.(i) How many units of electricity were used since the previous reading?
		(ii) What is the cost of the electricity used, if electricity costs 9.52 cent per unit?
		(iii) A standing charge of €7.00 is added and VAT is then charged on the full amount. If John's total bill is €98.91, calculate the rate at which VAT is charged.
	(c)	(i) When using a calculator to add 1.7 and 2.2, a student strikes the multiplication key instead of the addition key. Calculate the percentage error in the result, correct to one decimal place.
		(ii) What sum of money invested at 6% per annum compound interest will amount to €5000 in 7 years?Give your answer correct to the nearest euro.

Answers			
1 (a) 75 km/hr			
(b) (i) 850	(ii) €80.92	(iii) 12.5%	
(c) (i) 4.1%	(ii) €3,325		