(a) (i) Calculate the mean of the following numbers 2, 3, 5, 7, 8. place. in a shop: Amount Spent (IR£) 0 - 8 8 - 12 12 - 16 16 - 20 20 - 32 Number of Customers 2 9 13 10 6 [Note: IR£8 - IR£12 means IR£8 or over but less than IR£12 etc.] (ii) Copy and complete the following cumulative frequency table: Amount Spent (IR£) < 8 < 12 < 16 < 20 < 32 Number of Customers

(iii) Draw a cumulative frequency curve (ogive).

(iv) Use your curve to estimate the number of customers who spent IR£25 or more.

Answers 7 (a) (i) 5 (ii) 2.3 (b) (i) £15.40						
(11)	Amount Spent (IR£)	< 8	< 12	< 16	< 20	< 32
	Number of Customers	2	11	24	34	40
(iv) 3						

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 - (ii) Hence, calculate the standard deviation of the numbers correct to one decimal
 - (b) The following table shows the distribution of the amounts spent by 40 customers

(i) Taking mid-interval values, estimate the mean amount spent by the customers.