3	Cumfycars Ltd produce 3 grades of car seat covers, Basic, Deluxe and Super. Each
	seat cover is manufactured using a different grade of material.

Sales demand for the year ended 30 April 2013 is forecast to be:

	Basic	Deluxe	Super
Sales demand (units)	4000	2000	500
The following figures are available:			
Per Unit	Basic	Deluxe	Super
Sales price	\$12	\$20	\$30
Variable costs	\$6	\$14	\$16
Direct labour hours	3	5	8

Total fixed overhead costs for the year ending 30 April 2013 are estimated to be \$39000.

Fixed overhead costs are absorbed on the basis of direct labour hours.

RE

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(a)	(i)	Calculate the total direct labour hours required to meet the forecast demand for all 3 products.	
			[2]
	(ii)	Calculate the estimated fixed overhead recovery rate.	
			[2]
			[3]
	(iii)	Calculate the estimated contribution per unit for each product.	
			[3]

	(iv)	Calculate product.	the	estimated	contributio	n per	direct	labour	hour	for	each	
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(b)		ulate the qu profit if this				should	be mad	le in ord	er to n	naxir	nise	
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(c)	(i)	Prepare a statement showing the net profit or loss made by each product (Basic, Deluxe and Super) for the year ending 30 April 2013.	
			[7]
	(ii)	Using the estimated fixed overhead recovery rate calculated in (a) (ii) clearly show any fixed overhead over/under-absorbed.	
			[3]

Cumfycars Ltd also produce car roof racks in separate premises.

The total forecast fixed costs for the year ending 30 April 2013 amount to \$10 000.

Each roof rack has the following unit costs:

Unit costs	\$
Raw materials	40
Direct labour	30
Variable Overheads	25

There are no other costs. Each roof rack sells for \$100.

REQUIRED

(d)	Calculate the estimated break-even point in units and in sales revenue.	
		[0]
		[3]
(e)	Calculate the estimated margin of safety in units and revenue if 2200 units are produced.	
		[2]
		[4]