4 D Limited is a large company and operates from several sites. It uses different systems of costing for its different sites.

REQUIRED

State three advantages to a business of using a system of absorption costing.
1
2
3

Additional information

At one of its sites the company specialises in printing brochures and leaflets for local organisations. At this site it uses a system of absorption costing.

[3]

There are two production departments: Assembly and Printing and two service departments: Technical support and Personnel.

The following information is available.

	Production d	epartments	Service departments		
	Assembly	Printing	Technical support	Personnel	
Floor area (square metres)	90	70	15	5	
Power (kilowatt-hours)	120	320	40	20	
Replacement cost of machinery					
and equipment (\$)	105 000	30 000	12000	3000	
Number of employees	20	15	5		
Technical support hours	400	60			

The following budgeted overhead costs for August 2019 are still to be apportioned.

	\$
Electricity	20 500
Insurance of machinery	7 500
Insurance of buildings	11880

REQUIRED

(b) Complete the following table to show the apportionment of budgeted overhead costs for August 2019.

Apportionment of overheads

		Production departments		Service departments		
	Total \$	Assembly \$	Printing \$	Technical support	Personnel \$	
Overheads already apportioned	40 210	17 530	11 360	5020	6300	
Electricity						
Insurance of machinery						
Insurance of buildings						
Total overheads apportioned						
Reapportionment of personnel overheads						
Reapportionment of technical support overheads						

Additional information

The following budgeted information is also available for August 2019.

	Assembly	Printing
Direct labour hours	3200	2000
Direct machine hours	1400	5500

REQUIRED

[4]	an	using	lepartment	production	each	tor	rate	absorption	overhead asis.	Calculate an appropriate ba	C)
[4]	•••••	••••••				•••••					
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Additional information

The company received an order for a set of brochures to be produced in August 2019. It was budgeted that this order would require the following:

Direct material and labour cost \$1330

Direct labour hours

Assembly department 12.5 hours Printing department 7.2 hours

Machine hours

Assembly department 5.5 hours Printing department 6.0 hours

The company requires a profit margin of 25% on all orders.

REQUIRED

(d)	Calculate the budgeted profit on this order.
	[4]
Add	ditional information
The	e actual time taken in each production department for this order was as follows:
	Assembly department Printing department ect labour hours 11 6.5 chine hours 6 8
RE	QUIRED
(e)	Calculate the total over or under-absorption of overheads for this order . Clearly show in your workings over-absorption or under-absorption of overheads in each department.
	[5]

Additional information

At a second site, D Limited manufactures garden chairs and uses a system of marginal costing. There are three models: basic, super and deluxe. Total budgeted fixed costs per annum are \$234000. Budgeted direct labour hours are 156000 per annum. Fixed overhead costs are absorbed on the basis of direct labour hours.

The following forecast figures are available for September 2018.

	Basic	Super	Deluxe
Contribution per chair	\$3	\$9	\$12
Direct labour hours per chair	3	4.5	5.5

A director has suggested that production of the model which provides the least profit should be discontinued and resources switched to the production of the other models.

REQUIRED

(f)	Recommend whether or not production of the model which provides the least profit should be discontinued. Justify your answer using both financial and non-financial factors.
	[7]