4	Anna	has	а	manufacturing	business	with	two	production	departments	and	two	service
	departr	ment	s. S	She makes circu	it boards fo	or elec	ctronic	c games usir	ng batch costin	ıg.		
	DEGL											
	REQU	IKED)									

(a)	Explain what is meant by 'batch costing'.
	[2]

Additional information

The following budgeted annual data for Anna is available:

	Production of	lepartments	Service departments			
	Assembly	Machining	Stores	Canteen		
Overheads	\$36 000	\$50 000	\$6 250	\$2500		
Direct labour hours	6 0 0 0	3 500	_	_		
Machine hours	2500	5 500		_		

The following information is also available:

	Assembly	Machining	Stores
Number of orders	800	1200	_
of canteen	65%	25%	10%

REQUIRED

(b) Re-apportion the service departments' costs to the production departments using a suitable basis for each.

	Assembly \$	Machining \$	Stores \$	Canteen \$
Allocated overheads	36 000	50 000	6250	2500
Re-apportionment of canteen				
Subtotal				
Re-apportionment of stores				
Total				

[3]

(c) Calculate a suitable overhead absorption rate for each production department to two decimal places.

Add	Additional information									
A ty	pical order for a batch of 100	0 circuit boards requires the following:								
	ect materials ect labour Assembly department Machining department	\$48 000 500 hours at \$12 per hour 300 hours at \$8 per hour								
Mad	chine hours Assembly department Machining department	210 hours 500 hours								
Sell	ing and administration costs	\$7000								
RE	QUIRED									
(d)	Calculate, to two decimal p units.	laces, the total cost per circuit board based on a batch of 1000								

.....

.....

[6]

Additional information

Sally, a customer, asked for a quote for an order for 75 circuit boards. Anna calculates the selling price to give a profit margin of 60%.

RE	ดเ	JIR	ED

(e)	Prepare a quote showing the total selling price.	
		 [3]
Add	ditional information	
Sall	ly considered the quoted price and has asked for a discount of 5%.	
RE	QUIRED	
(f)	Advise Anna whether or not she should allow Sally the discount. Justify your answer.	
		•••••
		[5]

Additional information

Anna has recently opened another factory making cases for the electronic games. She is considering closing this factory as she believes it is unprofitable.

The following estimated data is available based on orders for the next six months:

Per unit	\$
Selling price	12
Variable costs	5
Total fixed costs	21,000

Total fixed costs 21 000 Estimated demand 2800 units

REQUIRED

(g)	Calculate the break-even point in units.	
		•••
		[3

(h)	Advise non-fina	Anna ancial re	whether easons fo	or no or your	answe	er.				financial	
		•••••	•••••				 	 	•••••		
		•••••									