4 T Limited manufactures a single product. The following budgeted information is available.

	Per unit \$
Direct materials	8.40
Direct labour	14.50
Other variable costs	2.30
Fixed costs	8.00

Each unit is sold for \$36. Budgeted monthly production and sales are 1200 units.

REQUIRED

(a)	Calculate the monthly break-even point in units.
(b)	Calculate the margin of safety:
	(i) in units
	(ii) in revenue [1]
	[1]
(c)	Identify three assumptions made when using break-even analysis.
	1
	2
	3

Additional information

In January 2021 the company made and sold 1120 units.

REQUIRED

(d)	(i)	Calculate the contribution to sales ratio.	
			[1]
	(ii)	Calculate the profit made in January 2021.	
			[2]

Additional information

In March 2021 a machine fault meant that only 75% of budgeted output could be produced. The directors considered two options.

Option A

- 1 Reduce normal output by 25%; as a result, materials cost would be affected because trade discount of 20% on bulk orders would not be available. All other costs would remain the same.
- Buy in units from a competitor at \$27.20 per unit. The competitor can supply a maximum of 250 units and will charge \$125 for delivering this quantity.

Option B

- 1 Hire a replacement machine at a cost of \$1600 for the month.
- 2 The replacement machine could make an additional 200 units per month.
- 3 All other costs would remain the same.

REQUIRED

(e)	Cal	culate the profit for March 2021 for:
	(i)	Option A
		[7]
	(ii)	Option B
		[3]

(f)	Advise the directors which option they should choose. Justify your advice by considering both options.	ıg
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Additional information

Recently a system of budgetary control has been introduced by T Limited. However, there have been concerns that the system has not worked well.

REQUIRED

(g)	State three limitations of budgetary control.
	1
	2
	3
	[3