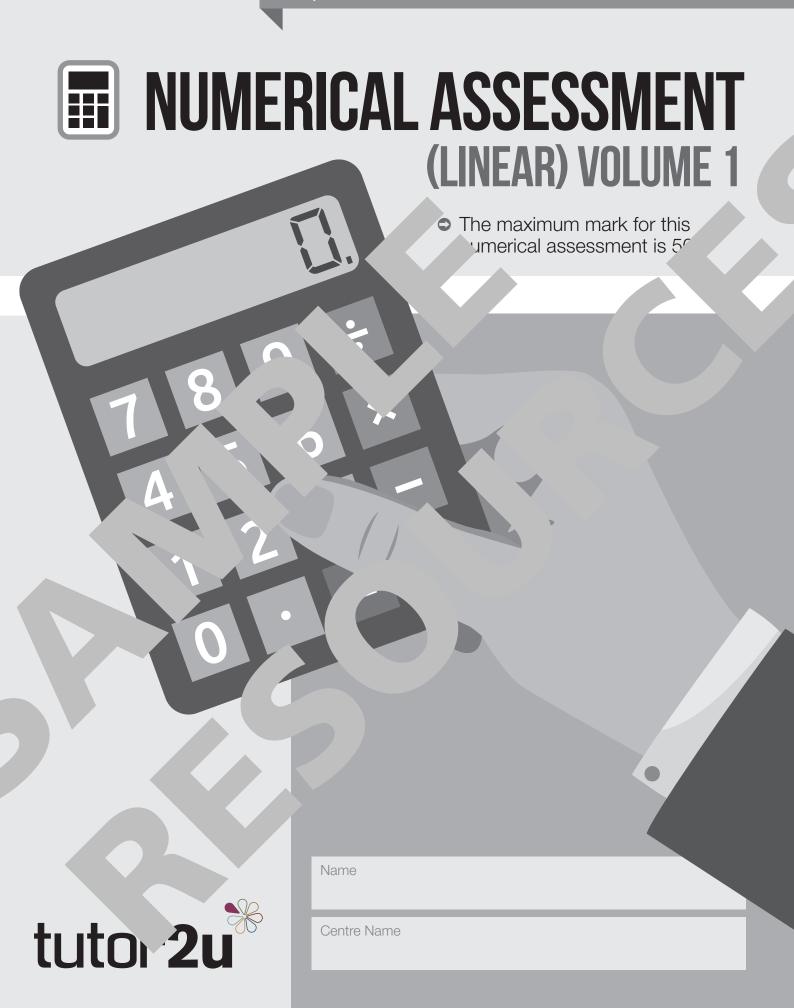
AQA A Level Business





Section A

ANSWER ALL QUESTIONS IN THIS SECTION

The data in Table 1 refers to a business and should be used for question 1.1

Table 1

Data on a business

Selling price	£1.50
Total contribution	£26,250
Number of units sold	25,000

Based on the data in **Table 1**, calcaste the business cost per unit. Show your workings

(3	mar	k۶
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The data le 2 refers to the proje revenue osts or a firm's investment in a new retail 'ot and so Juld be used for questi 1

Cost of investment £10m

Year	Infi (€m)	Outflows (£m)
1		1
2		3
3	12	4



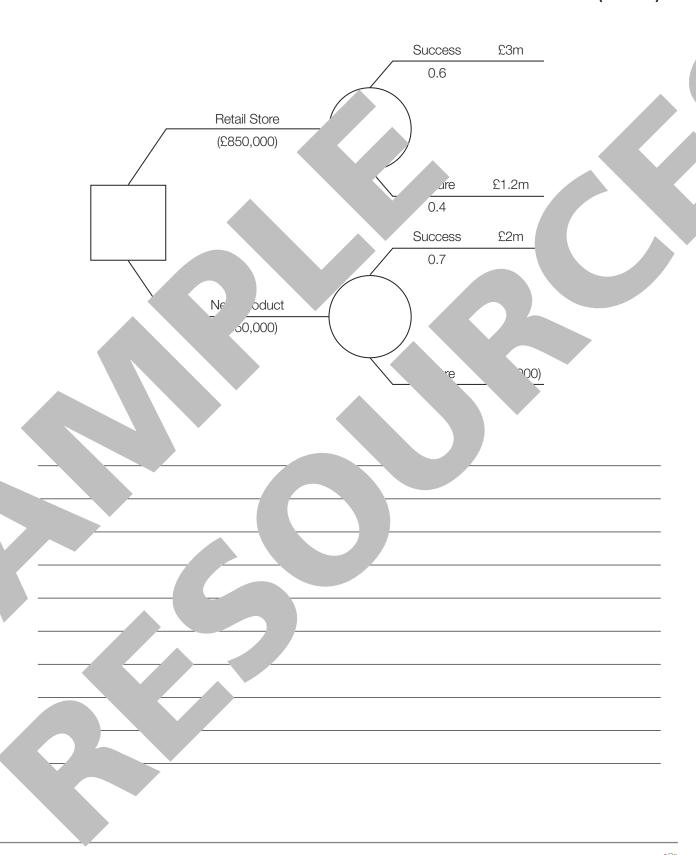
"tutor**2u**"

Show your working	iyə				(4 ma
					(
			_		
A business has a Last month the b		ce of 2	able costs are 1/5. ulate the total contr		g pric nth.
Show your work		o units. Cc.c	ulate trie total corti	li ilas	Tiut.
	3				(3 ma
	-			-	
	<u> </u>				



A business is considering two options to increase profit. The first option, open another retail store, 4 has a net gain of £1.43 million. Calculate the net gain of the alternative option, launch a new product. Show your workings

(5 marks)

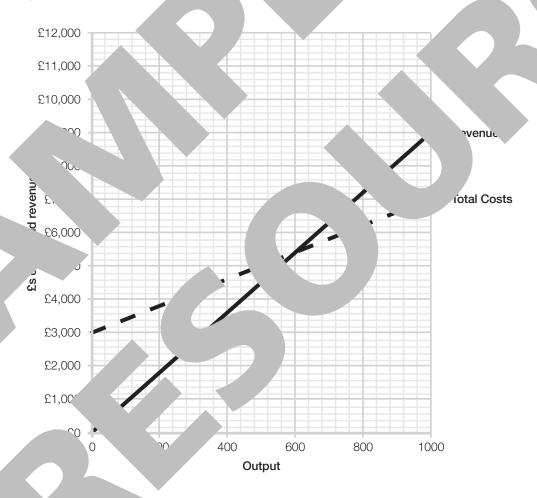




5 This year, a firm's sales were £489,600. This was 2% higher than its sales last year. The size of the market by value last year was £10m. Calculate the firm's market share last year. Show your workings

(3 n	nark	(s)

6 Graph 1 refers to the monthly break ituation ' new business start-up and Ild be used for questions 6.1, 6.2, 6.3, 6





6.1	At the break-even output, what percentage of total costs are fixed?	
	Show your workings	(3 marks)
		\prec
6.2	Calculate the margin of the safety business if it expects to sell 950 units per his Show your workings	(2 m <i>ə</i> r
		(2 IIIa)
6.3	C the rofit if the business sells 1 000 up month	
	Sho. working 3	(3 marks)
4		



6.4	After initial high sales, the owner of the business is looking to increase the selling price by 1/3. Amend the break-even chart above to show the new revenue line after this change.
	Label this line TR2 (3 marks)
6.5	Calculate the new break-even point. business or the increase in price. Show your workings



7 A business is considering launching two new products next month, product X and product Y. **Table 3** contains data relating to both new products.

Table 3

	Product X	Product Y
Selling price per unit	£20	£40
Variable cost per unit	£8	£10
Estimated monthly sales	500 units	750 units

The two new products will incur additional fixed monthly profit or loss from the launch of the	us of £ 000 per month. Ow pr us. Show your wo	





8 The data in Table 4 shows extracts from a firm's company accounts and should be used for questions 8.1 and 8.2

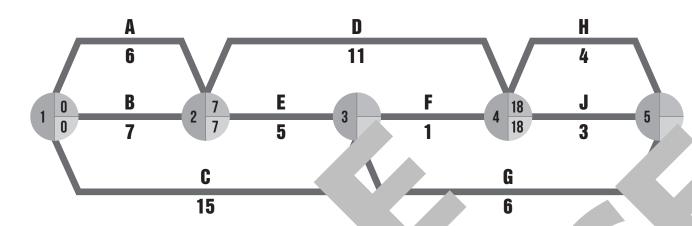
Table 4

Sales revenue	£850,000
Gross profit	£500,000
Operating profit	£55,000
Non-current liabilities	£275,000
Payables	£25,000
Total equity	£150,000

8.1	Based on the data in Table 4 , calculate the firm Show your workings	on capi [*] nployed.	(3 markક્
			(S marks)
•			
8.2	Bac the da. fable 4, calculate the Show orkings	rvable	
			(4 marks)
4			

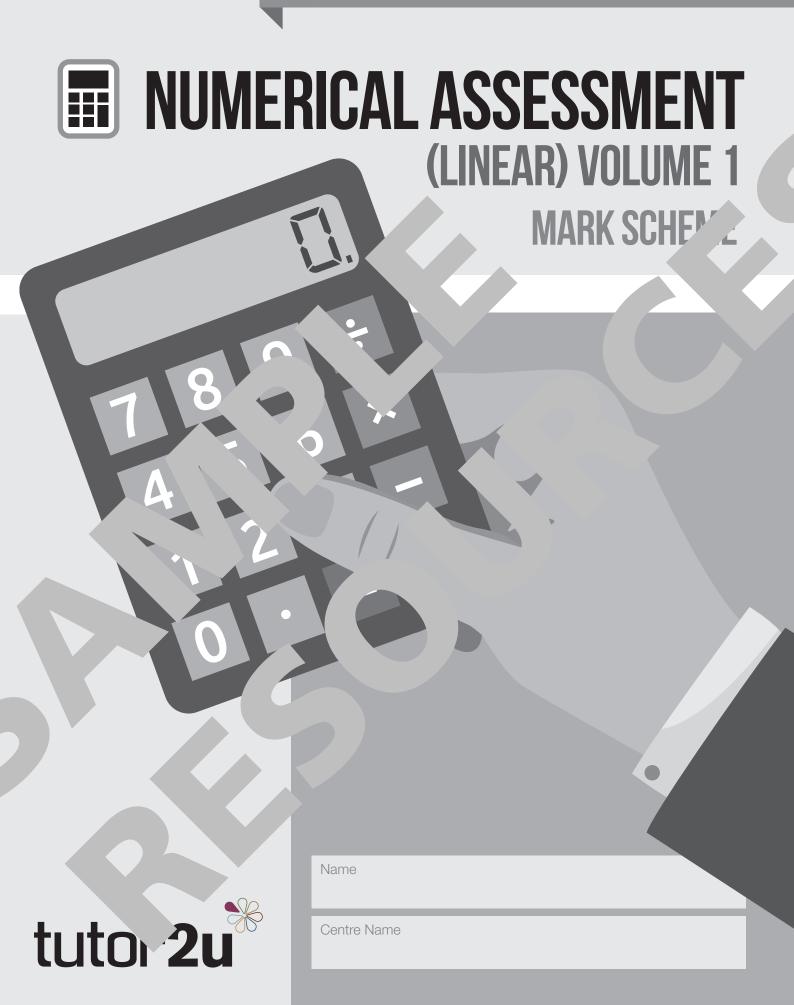


A business has produced the following network diagram. The figures relate to weeks. 9



Complete the EST and the LFT for . 3 and 5 in * 3 network diagram	(4 mar ^j
	(4 mar)

AQA A Level Business





Section A

The data in Table 1 refers to a business and should be used for question 1.1

Table 1

Data on a business

Selling price	£1.50
Total contribution	£26,250
Number of units sold	25,000

Based on the data in 1.1 ss's variable cost per ılate ı. Show your working

(3 marks)

Answer: 1

tal co. Jution / number of units so Contribution

79 250 / 2 (1 mark)

= selling price - contribution pe

ark) = £0.45 (1 mark)£1.00

If no v culation: award 1 mar able cost per unit (above) JON

The cata in **Table 2** refers * proje -anue costs of a firm's investment in a new retail outlet and should be us question _

Table 2

£10m Cost of invest

Year	Ir' (£m)	Outflows (£m)
1	5	1
2	7	3
	12	4



2.1 Based on the data in **Table 2**, calculate the average rate of return of the investment. Show your workings

(4 marks)

Answer: 20% (4 marks)

Average rate of return % = net profit from project / number of years ×100

initial cost of project

= net profit from project = (£24m (total inflows) - £8 total outflows) -

£10m (cost of investment) (1 mark) = £6m (1 m

- = annual return from project = £6m/3 = £2r ark)
- $= (£2m/£10m) \times 100 = 20\%$ (1 mark)

If no valid calculation: award 1 mark for correct ove or appropriate v on)،

3 A business has an aver-Lie costs are 1/5th of the selling Sirce ate the total contribut Last month the busin 10 unit 30la Show your workin

(3 marks)

Answer: 1 arks,

bution er unit x number of units so. Total contrib

- (£6/5) `(s)
- 96,000 **(1 mark)**

Tota. 'oution = total sales revenue COSL

- = £6 x 2c J = £120,000 (1 mark)
- \geq £1.20 × 20,000 = £24,00 nark)
- =£120,000 £24,000 = £ 70 (1 n

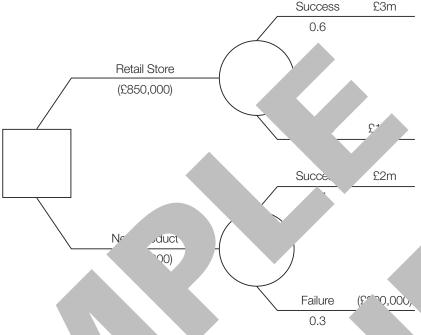
If no valid calculation ard 1 mark for correct formula (above)





4 A business is considering two options to increase profit. The first option, open another retail store, has a net gain of £1.43 million. Calculate the net gain of the alternative option, launch a new product. Show your workings

(5 marks)



Answer: £6 70 /

= exp initial cost of decision

$$x - £800,000 = £1.4m - £240,$$
 £1,160,00

rk) ark) (1 mark)

mark)

=£1, Y - £550,000 = £610,000/

This year, a firm's sales *∠*489,600. righer than its sales last year. The size of the market by value last ye as £10m Calculate rirm's market share last year. Show your workings

(3 marks)

Answer: շ (3 m⁻

Market s ales of the Lusiness x 100

> al saler ie market

015 = .1.02 = £480,000

> (1 mark) (1 і. . к)

 $.80,000 / £10m) \times 100 = 4.8\%$ (1 mark)

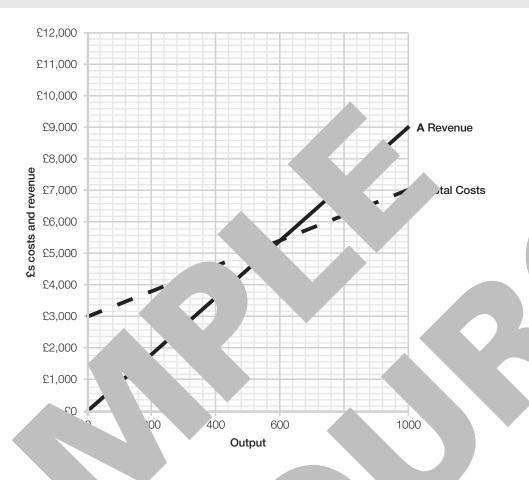
lid calculation: award 1 mark for correct formula (above)



[ົ]າວ valic ചculation: award 1 ma la (above) or correct.



6 Graph 1 refers to the monthly break-even situation for a new business start-up and should be used for questions 6.1, 6.2, 6.3, 6.4 and 6.5



ven output, what perce e of touc are fixed? At the L w you vorkings

(3 marks)

Answer: 55.56% (3 ma

From the graph, the b 600 units even

At 600 units total costs

Fixed costs ,000 (1 mark)

= £3,00400 = 55.5 , mark)

(1 n.





6.2 Calculate the margin of the safety for the business if it expects to sell 950 units per month. Show your workings

(2 marks)

Answer: 350 units (2 marks)

Margin of safety = actual level of output - breakeven level of output

= 950 units - 600 units (1 mark) = 350 units (1 mark)

If no valid calculation: award 1 mark for corre mula (above)

6.3 Calculate the level of profit if the business sells ılts per th. Show your workings

(3 mark

Answer: £2,000 (3 marks)

Profit = total revenue

From the graph:

Revenue = £9 000 ()

Total costs

Profit = £9. = £'2. mark)

If valid ca rd 1 mark for correct formula (ab. atio.

6.4 looki , the owner of the busin e selling price by 1/3. break-even chart above to or this change. Ame. neve: Label to TR2

(3 marks)

Answer = TR2 line (as be' (3 ma.

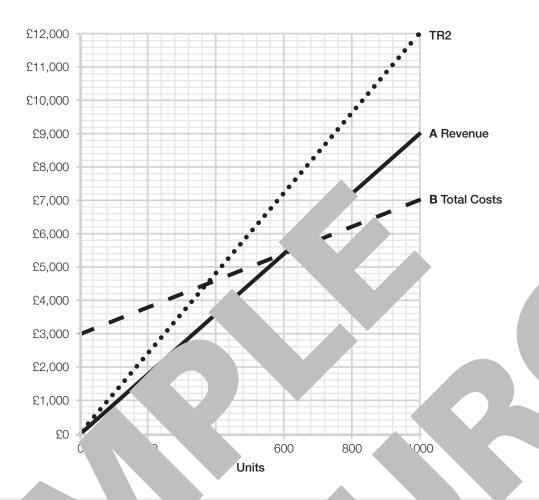
Original selling price = 1 .9,000/1000 unik

New selling price = $\mathfrak{L}9$ £12 (1 mark)

TR2 line starts the original revenue line (shows a price increase) (1 mark) ero and ... isnes ab

TR2 line 1 .put lev of 1,000 s£12,000 (1 mark)





6.5 ak-even point for the business ice. `e increase our v.

(5 marks)

wer: 3. units (5 marks)

Fixed costs = £3,000

Contribution per .ce pe variable cost per unit

Selling price unit (after price increase)

From gra, 'abl = £4,000/1,000 units = £4

(at 1 000 un. √ariable .s = £4,000 (total costs = £7,000 - fixed costs £3,000)) (1 mark)

3£ = 1

p = £3,0c/ mark) = 375 units (2 marks) -reak

(1 mark)

plid calculation: award up to 2 marks for correct formula (above - one mark per element)





7 A business is considering launching two new products next month, product X and product Y. **Table 3** contains data relating to both new products.

Table 3

	Product X	Product Y
Selling price per unit	£20	£40
Variable cost per unit	£8	£10
Estimated monthly sales	500 units	750 units

The two new products will incur additional fix sts of 000 per month. Calculate the expe monthly profit or loss from the launch of the t. acts. Show your workings

(5 n

Answer: £16,500 (5 marks)

Profit = total revenue - total cost

Revenue

Product $x = £20 \times 500$ 700

Product y = £40 x000

00 = £40,000 (2 marks) Total revenue

Costs

Fixed costs =£12,000

x 500 = £4,00° ′ varia. osts

 $ts = £10 \times £750$ =£7,500

Tota J + (£4,000 + £7,500)າດ **(2**)

Profit = 9 - £23,500 = £16,500(ark

tion method:

cotal contribution – fix 1 costs

Product $x = 500 \times (£20)$ £6,000 (2)

Product $y = 750 \times (£40)$ (2 marks)

Profit = (£22,50) \$6,00 6,500 **(1 mark**) _,000

If no valid / lation award 1 mg r either correct formula (above)





8 The data in **Table 4** shows extracts from a firm's company accounts and should be used for questions 8.1 and 8.2

Table 4

Sales revenue	£850,000
Gross profit	£500,000
Operating profit	£55,000
Non-current liabilities	£275,000
Payables	£25,000
Total equity	£150,000

8.1 Based on the data in Table 4, ca. the firm's return a capital employed. Show your workings

(3 m)

Answer: 12.94% (

Return on ca empic $_{0}$ CE) = operating profit x 100

equity + non-current liabili

(150,) = 12.94%=£55,000

าark) (1 mark)

on: award 1 mark for correct `ব (above)

data in Table 4, calcula Based e firm's es days. w you vorkings

(4 marks)

Answer: 26.07 days (4) vs)

es x ? ? Payables days =

cost

2850,000 - £500,00 £350,000 **(1 mark)** = Cost of sale

 $=£25,00^{\circ}$ *√*50,00′ 365 = 2 Jays

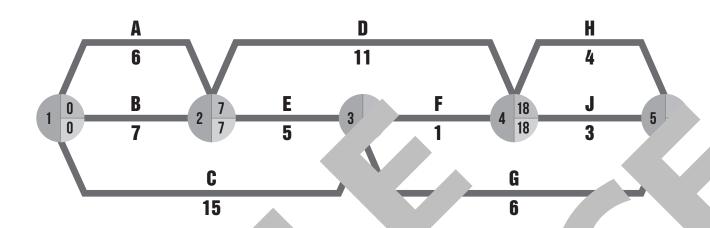
(1 mai (1 mark)

اid c، 1 mark for correct formula (above) `າn: ຂໍ





9 A business has produced the following network diagram. The figures relate to weeks.



Complete the EST and in the network diagram noak

. KS)

