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Chapter 2—Developing a Business Plan: Cost-Volume-Profit Analysis

COMPLETION

1.	Instead of rushing into a business right away, it is wise to develop a					
	ANS:	business plan				
	PTS:	1	DIF: Easy	TOP: Planning in a new business		
2.	A		describes a bus	siness's goals and its plans for achieving those goals.		
	ANS:	business plan				
	PTS:	1	DIF: Easy	TOP: Planning in a new business		
3.			refers to the unce	ertainty about the future operations of a business.		
	ANS:	Risk				
	PTS:	1	DIF: Easy	TOP: Planning in a new business		
4.		decisions.	is money tha	at investors will receive back from their investment and		
	ANS:	return				
	PTS:	1	DIF: Easy	TOP: Planning in a new business		
5.		spond to marke		he business will make sales and how it will influence		
	ANS:	marketing pla	n			
	PTS:	1	DIF: Easy	TOP: Marketing plan		
6.	Thethe pro		descri	bes how the business will promote, price and distribute		
	ANS:	marketing stra	ntegy			
	PTS:	1	DIF: Easy	TOP: Marketing plan		
7.	Thebusine	ess's products b	describes the describes the describes the	e predicted growth, market share and sales of the		
	ANS:	sales forecast				
	PTS:	1	DIF: Easy	TOP: Marketing plan		

8.		The section of a business plan includes a description of the relationships between the business, its suppliers, its customers, as well as a description of how the								
		business will develop, service, protect and support its products or services.								
	ANS:	business oper	ations							
	PTS:	1	DIF: Easy	TOP: Operating plan						
9.	requir			a business plan identifies the business's capital ell as to describe the business's projected financial						
	ANS:	financial plan								
	PTS:	1	DIF: Moderate	TOP: Financial plan						
10.			is the business's	s funding.						
	ANS:	Capital								
	PTS:	1	DIF: Moderate	TOP: Sources of capital						
11.			is the business'	s funding that will be repaid within a year or less.						
	ANS:	Short-term ca	pital							
	PTS:	1	DIF: Moderate	TOP: Sources of capital						
12.			is the business's	s funding that will be repaid after more than a year.						
	ANS:	Long-term ca	pital							
	PTS:	1	DIF: Moderate	TOP: Sources of capital						
13.			sho	ows how profit is affected by changes in sales volume, costs of the business.						
				costs of the business.						
	ANS:	Cost-volume-	profit analysis							
	PTS:	1	DIF: Difficult	TOP: Cost-volume-profit analysis						
14.		rariable costs.		_ is the difference between the total sales revenue and						
	ANS:	total contribu	tion margin							
	PTS:	1	DIF: Difficult	TOP: Contribution margin						
15.	The _ the va	riable costs per	unit.	_ is the difference between the sales revenue per unit and						
			nargin per unit							
	4 AL 110.	- Junioution I								

TRUE/FALSE							
1.	The first step in starting a business is to develop a business plan.						
	ANS: T business	PTS:	1	DIF: Easy	TOP: Planning in a new		
2.	The first step in starti	ng a bu	siness is to set	up a corporation.			
	ANS: F business	PTS:	1	DIF: Easy	TOP: Planning in a new		
3.	A business plan is a s	static do	ocument. Once	created it should not n	eed to be updated.		
	ANS: F business	PTS:	1	DIF: Easy	TOP: Planning in a new		
4.	A business plan typic plan, an environment	•			marketing plan, an operating		
	ANS: T business	PTS:	1	DIF: Moderate	TOP: Planning in a new		
5.	A business plan shou	siness plan should be viewed as an opportunity to identify mistakes before they could happen					
	ANS: T business	PTS:	1	DIF: Moderate	TOP: Planning in a new		
6.	Cost behaviour activi	ty affec	cts the way cost	es behave.			
	ANS: T	PTS:	1	DIF: Moderate	TOP: Cost behaviour		
7.	In cost behaviour cos	t affect	s the way costs	behave.			
	ANS: F	PTS:	1	DIF: Moderate	TOP: Cost behaviour		
8.	Fixed costs per unit v	vill rem	ain constant as	activity changes.			
	ANS: F	PTS:	1	DIF: Moderate	TOP: Fixed costs		
9.	A fixed cost does not	respon	d to changes in	an activity such as sal	les volume.		
	ANS: T	PTS:	1	DIF: Moderate	TOP: Fixed costs		
10. A fixed cost responds directly to changes in an activity such as sales volume.					les volume.		
	ANS: F	PTS:	1	DIF: Moderate	TOP: Fixed costs		
11.	Fixed costs per unit will change as activity changes.						

TOP: Contribution margin

PTS: 1

DIF: Moderate

	ANS: T	PIS: 1	DIF: Moderate	TOP: Fixed costs
12.	Variable costs will re ANS: T	emain constant per un PTS: 1	it as activity changes. DIF: Moderate	TOP: Variable costs
13.	Variable costs per ur	nit will change as acti	vity changes.	
	ANS: F	PTS: 1	DIF: Moderate	TOP: Variable costs
14.	A variable cost respo	onds directly to chang	es in an activity such as	s sales volume.
	ANS: T	PTS: 1	DIF: Moderate	TOP: Variable costs
15.	Total costs are the su	um of the fixed costs a	and variable costs.	
	ANS: T	PTS: 1	DIF: Moderate	TOP: Total costs
16.	Contribution margin contributes toward p		r after a sale to cover th	ne fixed costs, which then
	ANS: T	PTS: 1	DIF: Moderate	TOP: Contribution margin
17.	Sales less fixed costs	s equal contribution m	nargin.	
	ANS: F	PTS: 1	DIF: Moderate	TOP: Contribution margin
18.	Sales less variable co	osts equal contribution	n margin.	
	ANS: T	PTS: 1	DIF: Moderate	TOP: Contribution margin
19.	All contribution mar	gin created past the b	reakeven point will con	atribute towards profit.
	ANS: T	PTS: 1	DIF: Moderate	TOP: Contribution margin
20.	All contribution mar costs.	gin created prior to th	e breakeven point will	contribute towards covering fixed
	ANS: T	PTS: 1	DIF: Moderate	TOP: Contribution margin
21.	All contribution mar	gin created prior to th	e breakeven point will	contribute towards profit.
	ANS: F	PTS: 1	DIF: Moderate	TOP: Contribution margin
22.		deducted from the sel equation for determin		n the result then taken times sales
	ANS: F volume to achieve a	PTS: 1 target profit	DIF: Moderate	TOP: Finding the unit sales
23.	The breakeven point	is the point that total	revenues equal total co	osts.
	ANS: T point	PTS: 1	DIF: Moderate	TOP: Finding the break-even

	ANS: F point	PTS:	1	DIF: Moderate	TOP: Finding the break-even		
25.	The breakeven poi	nt is the po	oint that total r	evenues are less than t	otal costs.		
	ANS: F point	PTS:	1	DIF: Moderate	TOP: Finding the break-even		
26.	The breakeven poi	nt is the po	oint that total r	evenues equal target p	rofit.		
	ANS: F point	PTS:	1	DIF: Moderate	TOP: Finding the break-even		
27.			_	the price of their good ulting changes in costs	s, CVP analysis would help		
	ANS: T analysis	PTS:	1	DIF: Difficult	TOP: Cost-volume-profit		
28.	CVP can be an absolook only to the C		_	-	ge in costs or prices, one need		
	ANS: F analysis	PTS:	1	DIF: Difficult	TOP: Cost-volume-profit		
29.	CVP is not an absolute decision making tool. Faced with a change in costs or prices, one should also consider the impact on customers as well as the CVP results to make a complete decision.						
	ANS: T analysis	PTS:	1	DIF: Difficult	TOP: Cost-volume-profit		
30.	When analysing ar also be considered		e set of plans,	CVP is but one tool. T	The impact on customers should		
	ANS: T analysis	PTS:	1	DIF: Difficult	TOP: Cost-volume-profit		
MUL	TIPLE CHOICE						
1.	II. The first step i	in starting and is a static in should be edis correct	a business is to c document that e viewed as an	o develop a business poor set up a corporation. It if done right will not a opportunity to identif			

24. The breakeven point is the point that total revenues exceed total costs.

	ANS: D business	PTS:	1	DIF: Moderate	TOP: Planning in a new
2.	The primary concern a. risk. b. return. c. both of the optio			tors is:	
	ANS: C business	PTS:	1	DIF: Easy	TOP: Planning in a new
3.	Fixed costs: a. do not respond to b. respond in the op c. change in propor d. will always be the	posite of	direction of cha th changes in v	olume.	
	ANS: A	PTS:	1	DIF: Moderate	TOP: Fixed costs
4.		of these sell as n to som	e fixed costs. A nany units as percentage of the contract of the costs	strategy for Barney w	ery and salaries. Barney desires to rould be?
	ANS: A business	PTS:	1	DIF: Moderate	TOP: Planning in a new
5.	Which of the followinga. Equipment.b. Cost of productsc. Salary plus commod.d. Telephone usage	sold to	customers.	example of a fixed cost	t ?
	ANS: A	PTS:	1	DIF: Difficult	TOP: Fixed costs
6.	 a. do not respond to changes in volume. b. respond in the opposite direction to changes in volume. c. change in proportion with changes in volume. d. will always be the same from one period to the next. 				
	ANS: C	PTS:	1	DIF: Moderate	TOP: Variable costs
7.	Which of the followinga. Equipmentb. Cost of productsc. Salary plus commendd. Telephone usage	sold to nission	customers	example of a variable o	cost?
	ANS: B	PTS:	1	DIF: Difficult	TOP: Variable costs
8.	Which of the following a. Fixed costs and was	-	-	lirect proportion to the	volume?

	c.	Variable costs None of the optic Fixed costs	ons give	en				
	AN	IS: B	PTS:	1	DIF: Moderate	TOP: Variable costs		
9.	per a. b. c.	rb's Best Pies sells iod are \$4 000. Th \$2.00 \$5.00 \$3.00 \$ - 0 -		_		00 per unit and fixed costs for the		
	AN	IS: A	PTS:	1	DIF: Difficult	TOP: Profit calculation		
10.	Ass tota a. b. c.	Widget World makes a widget that is sells for \$10 per unit. The variable costs are \$7 per unit. Assuming the business has normal fixed costs, and the breakeven point is 350 units, what are the total costs at breakeven? a. \$4 500 b. \$3 500 c. \$12 000 d. \$7 500						
	AN poi	IS: B nt	PTS:	1	DIF: Difficult	TOP: Finding the breakeven		
	Example 2.1							
	The information below is used for the following problems.							
		slie's Soccer Balls slie's break-even p			\$20 each and incurs va	riable costs of \$15 per ball.		
11.	a. b. c.	fer to Example 2.1 \$2 000 \$8 000 \$20 0000 None of the optic			eslie's fixed costs?			
	AN	IS: C	PTS:	1	DIF: Difficult	TOP: Fixed Costs		
12.	Refer to Example 2.1. What is Leslie's profit when 50,000 units are sold? a. \$50 000 b. \$250 000 c. \$1 000 000 d. None of the options given							
		IS: A ume to achieve a t	PTS: arget p		DIF: Moderate	TOP: Finding the unit sales		
13.	a. b. c.	fer to Example 2.1 \$500 000 \$125 000 \$75 000 loss None of the optic		·	fit when 25,000 units a	re sold?		

	ANS: C volume to achieve a	PTS: 1 target profit	DIF: Easy	TOP: Finding the unit sales				
	Example 2.2							
	The information below is used for the following problems.							
	Garrison's Gaskets h price is \$5 per unit.	as variable costs of \$2	per unit and fixed cos	ts of \$40,000. Garrison's selling				
14.	Refer to Example 2.2 a. 8 000 units b. 20 000 units c. 13 333 units d. None of the opti	2. What is Garrison's books given	oreakeven point?					
	ANS: C point	PTS: 1	DIF: Moderate	TOP: Finding the breakeven				
15.	Refer to Example 2.2 \$100,000? a. 33,333 units b. 46,667 units c. 20,000 units d. 28,000 units	2. How many units wil	ll Garrison's have to se	ell in order to earn a profit of				
	ANS: B volume to achieve a	PTS: 1 target profit	DIF: Moderate	TOP: Finding the unit sales				
16.	Refer to Example 2.2. How much profit will Garrison's earn if it cuts its selling price to \$3 per unit, and sells 100,000 units? a. \$300 000 b. \$100 000 c. \$60 000 d. None of the options given							
	ANS: C volume to achieve a	PTS: 1 target profit	DIF: Moderate	TOP: Finding the unit sales				

SHORT ANSWER

1. What are the three main purposes of a business plan? Discuss each of the three purposes.

ANS:

First, the business plan helps the entrepreneur visualise and organise the business and its operations. It helps to evaluate the plan, develop new ideas, and refine the plan. Mistakes may be identified and corrected prior to implementing the plan.

Second, the business plan serves as a 'benchmark' for measuring the actual performance of the business. Plans for future activities can then be modified.

Third, the business plan helps the business obtain financing. The business plan helps creditors and investors assess the expected risk and return associated with the business.

PTS: 1 DIF: Moderate TOP: Planning in a new business

2. What are the two primary concerns of investors? Discuss each.

ANS:

One concern is the level of risk associated with the investment. Risk refers to the uncertainty existing about the future operations of the business. The other concern is return. Return refers to the money that the investor will receive back from their investment and credit decisions.

PTS: 1 DIF: Moderate TOP: Planning in a new business

3. What are the four parts of the business plan? Discuss each.

ANS:

The four parts of the business plan are a description of the business, a marketing plan, an operating plan, an environmental management plan and a financial plan.

The description of the business discloses the type of business and product. It describes how the business is organised. It discloses where the business is located. The objectives of the business are listed, along with potential customers.

The marketing plan shows how the business will influence and respond to market conditions. It provides evidence of the demand for the business's product or services. It describes the current and expected competition in the market and relevant government regulations.

The operating plan includes a description of the relationships between the business, its suppliers, and its customers, along with a description of how the business will develop, service, protect and support its products or services. It also includes any other influences on the operations of the business.

The financial plan discloses the capital requirements, sources of capital and to describe the business's projected financial performance.

PTS: 1 DIF: Difficult TOP: Planning in a new business

4. What is the purpose of the description of the business section of the business plan?

ANS:

The description of business section of the business plan discloses the type of business and product. It describes how the business is organised. It discloses where the business is located. The objectives of the business are listed, along with potential customers. The organisation of a business and its personnel can have a major impact on the success of the business. The investors need to be able to evaluate the items contained in this part of the business plan in order to assess the long-term potential of the business.

PTS: 1 DIF: Moderate TOP: Planning in a new business

5. What is the purpose of the marketing plan section of the business plan?

ANS:

The marketing section of the business plan shows how the business will influence and respond to market conditions. It provides evidence of the demand for the business's product or services. It describes the current and expected competition in the market and relevant government regulations. This section receives considerable attention from creditors and investors, as the marketing of a product is critical to the long-term success of a business. This information helps the manager think about the business's activities related to sales. It shows investors and creditors how well the manager has thought about the business's sales potential and how the business will attract and sell to customers.

PTS: 1 DIF: Moderate TOP: Marketing Plan

- 6. Doggie Donuts sells treats for pets for \$5 per box. The variable costs per box are \$3. Doggie Donuts' fixed costs total \$20 000.
 - a. Calculate the contribution margin per box.
 - b. Calculate the break-even point in boxes.
 - c. Calculate the profit that Doggie would earn if sales total 30,000 units.

ANS:

- a. \$2 = \$5 \$3
- b. $10\,000\,\text{units} = \$20\,000/\$2\,\text{per unit}$
- c. $$40\,000 = $2 \text{ per unit} \times 30\,000 \text{ units} $20\,000$

PTS: 1 DIF: Difficult TOP: Finding the break-even point

- 7. Bill produces a miracle tool. His variable costs are \$20 per unit and his fixed costs are \$25,000. His break-even point is 30 000 units.
 - a. What is Bill's selling price per unit?
 - b. What is Bill's profit at 50 000 units of sales?
 - c. What would Bill's profits at 50 000 units of sales be if Bill were able to reduce his variable costs by \$5 per unit?

ANS:

a. 30,000 units = 25 000/contribution margin per unit

Contribution margin per unit = \$0.83

Selling price per unit -\$20 = \$0.83

Selling price per unit = \$20.83

- b. $(\$0.83 \times 50,000) \$25,000 = \$16500$
- c. $[(\$20.83 \$15.00) \times 50,000] \$25\,000 = \$266\,500$

PTS: 1 DIF: Difficult TOP: Finding the break-even point

- 8. Bob's variable costs are \$7 per unit. His selling price is \$9 per unit. His breakeven point is 25 000 units.
 - a. What is the amount of Bob's fixed costs?
 - b. What is Bob's profit when he sells 30 000 units?
 - c. What would Bob's profit be if he were able to raise prices to \$10 per unit and had sales of 40 000 units?

ANS:

a. $25\ 000 = \text{fixed costs}/(\$9 - \$7)$

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Fixed costs = $$50\ 000$

b. $(\$2 \times 30\ 000) - \$50\ 000 = \$10\ 000$

c. $(\$3 \times 40\ 000) - \$50\ 000 = \$70\ 000$

PTS: 1

DIF: Difficult

TOP: Finding the break-even point

9. If variable costs increase, and fixed costs and the selling price remain constant, what will happen to the breakeven point? What will happen to profits?

ANS:

If variable costs rise, the contribution margin will fall. This will cause the breakeven point to rise. The same level of profit will be attained with higher unit sales.

PTS: 1

DIF: Difficult

TOP: Cost-volume-profit analysis

10. If fixed costs increase, variable costs and the selling price remain constant, what will happen to the breakeven point? What will happen to profits?

ANS:

If fixed costs increase, it will take more unit sales to breakeven. More units will have to be sold to attain a profit.

PTS: 1

DIF: Moderate

TOP: Cost-volume-profit analysis

11. Suppose that your business profits are less than the desired amount. What actions might you take to raise profits, if you do not want to change products?

ANS:

There are only a few actions that a business might take. The following are some of the possible alternatives. If the business can raise prices without hurting the sales volume in units, the contribution margin per unit would rise, resulting in higher profits. The business might consider investing in a new automated production facility, which would lower variable costs. If the increased contribution margin per unit more than offsets the increased fixed costs, profits will rise. If the business increases advertising, fixed costs will rise. If the advertising results in an increased sales volume, the increased total contribution margin may increase more than the increased fixed costs. This would result in an increase in profits.

PTS: 1

DIF: Moderate

TOP: Cost-volume-profit analysis