Exam

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Is the excess of sales over the cost of goods sold. A) The sales mix	1)
Answer: B Explanation: A) B) C) D) If the proportions in a sales mix change, the: A) break-even point will remain the same B) net income will not be altered C) cost-volume-profit relationship also changes D) contribution margin per unit increases Answer: C Explanation: A) B) C) D) A) As the cost-driver activity level increases within the relevant range: A) fixed costs per unit increases B) variable costs per unit increases C) total fixed costs remain unchanged D) total variable costs decrease Answer: C Explanation: A) B) C) D) When analyzing cost, think of: A) variable costs on a per-unit basis B) variable costs as a total C) variable costs as a total C) variable costs on a per-unit basis D) fixed costs on a per-unit basis Answer: A Explanation: A)	,
Explanation: A) B) C) D) (2) If the proportions in a sales mix change, the: A) break-even point will remain the same B) net income will not be altered C) cost-volume-profit relationship also changes D) contribution margin per unit increases Answer: C Explanation: A) B) C) D) (3) As the cost-driver activity level increases within the relevant range: A) fixed costs per unit increases B) variable costs per unit increases C) total fixed costs remain unchanged D) total variable costs decrease Answer: C Explanation: A) B) C) D) (4) When analyzing cost, think of: A) variable costs on a per-unit basis B) variable costs as a total C) variable costs as a total C) variable costs on a per-unit basis D) fixed costs on a per-unit basis Answer: A Explanation: A)	
B) C) D) (2) If the proportions in a sales mix change, the: A) break-even point will remain the same B) net income will not be altered C) cost-volume-profit relationship also changes D) contribution margin per unit increases Answer: C Explanation: A) B) C) D) (3) As the cost-driver activity level increases within the relevant range: A) fixed costs per unit increases B) variable costs per unit increases C) total fixed costs remain unchanged D) total variable costs decrease Answer: C Explanation: A) B) C) D) (4) When analyzing cost, think of: A) variable costs on a per-unit basis B) variable costs as a total C) variable costs as a total and fixed costs on a per-unit basis D) fixed costs on a per-unit basis Answer: A Explanation: A)	
C) D) (If the proportions in a sales mix change, the: A) break-even point will remain the same B) net income will not be altered C) cost-volume-profit relationship also changes D) contribution margin per unit increases Answer: C Explanation: A) B) C) D) (A) As the cost-driver activity level increases within the relevant range: A) fixed costs per unit increases C) total fixed costs remain unchanged D) total variable costs decrease Answer: C Explanation: A) B) C) D) (b) When analyzing cost, think of: A) variable costs on a per-unit basis B) variable costs as a total C) variable costs as a total and fixed costs on a per-unit basis D) fixed costs on a per-unit basis Answer: A Explanation: A) Explanation: A)	
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C) total fixed costs remain unchanged Answer: C Explanation: A) B) C) D) When analyzing cost, think of: A) variable costs on a per-unit basis B) variable costs as a total C) variable costs as a total and fixed costs on a per-unit basis D) fixed costs on a per-unit basis Answer: A Explanation: A)	0)
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C) variable costs as a total and fixed costs on a per-unit basis D) fixed costs on a per-unit basis Answer: A Explanation: A)	
D) fixed costs on a per-unit basis Answer: A Explanation: A)	
Explanation: A)	
B)	
C) D)	

·	•		stomer services costs?		5)
B) Number C) Travel co	of service ca	Ils is not a cost drive cost driver of custor	cost driver of customer ser r of customer services cost mer services costs.		
Answer: C Explanation:	A) B) C)				
	D)				
6) Assume the fo	llowing cost	information for Zac	hary Company:		6)
	ce per unit osts per unit d costs	\$144 \$80 \$80,000 40%			
mus A) 3,700 uni		arn an after-tax net B) 1,594 units	income of \$40,800. C) 1,063 units	D) 2,313 units	
Answer: D Explanation:	A) B) C) D) [\$80,000) + (\$40,800 / 0.6)] / (\$144 - \$80) = 2,312.5 or 2,3	13 units	
•	•		per unit is \$96, targeted ne s that must be sold is: C) 1,100	t income is \$52,800, and D) 629	7)
Answer: C Explanation:	A) B)	<i>b</i>) 313	C) 1,100	<i>D</i>) 027	
	C) (\$52,800 D)) + \$39,600) / (\$180 -	\$96) = 1,100 units		
•	•	\$100, the total fixed n the variable cost p	costs are \$75,000, and the er unit is:	break-even volume in	8)
A) \$70		B) \$30	C) \$100	D) \$75,000	
Answer: A Explanation:	\$75,000 .3 = (\$10	/ [(\$100 - X) / \$100] / \$250,000 = (\$100 - 00 - X) / \$100 100 - X)			

9)) is the relative proportions or combinations of quantities of products that comprise total				9)	
	sales. A) Variable- C) Gross ma			B) Contribution-ma D) Sales mix	rgin ratio	
	Answer: D Explanation:	A) B) C) D)				
10)		ution margi	n per unit is \$6.00. Me	ncome of \$18,000. Total fix redith's tax rate is 40%. Th		10)
	A) 19,000 un Answer: C Explanation:		B) 21,500 units	C) 14,000 units	D) 17,000 units	
		B)	/ \$6.00 = 14,000 units			
11)	Muy Mal Com	oany, a prod	ucer of salsa, has the f	following information:		11)
	Income tax Selling pric Variable co Total fixed	e per unit st per unit	30% \$5.00 \$3.00 \$90,000.00			
	must A) 45,000 un Answer: B Explanation:	its A)	B) 55,000 units	tax income of \$14,000. C) 52,000 units .00 - \$3.00) = 55,000 units	D) 60,000 units	
12)	•		units is 62,300, total fixed net income is:	xed costs are \$31,200, and	contribution margin per	12)
	A) \$43,560 Answer: A Explanation:	Č	B) \$74,760 + X) / \$1.20 = 62,300 a	C) \$31,200 and X = \$43,560	D) \$37,440	

13) If fixed expenses were the same and contribution margin per unit was cut in half, then the break-even point would:					13)	
A) be the sa			B) be undetermin	nable		
C) double			D) be cut in half			
Answer: C	• •					
Explanation:	A) B)					
	C)					
	D)					
14) Which value c			ost of computer-aided c	lesign equipment and cost	14)	
•		ion would include th	nese costs.			
-		on would include the				
	_	on would include the	se costs. sses function would incl	udo thoso costs		
Answer: D	gir or product	i, sei vices, and proces	sses function would inch	ude mese costs.		
Explanation:	A)					
·	B)					
	C)					
	D)					
	_	_	net income is \$76,800, a	nd targeted sales volume in	15)	
	,000, then tota	al fixed costs are:	C) #17 200	D) #22 000		
A) \$44,160 Answer: C		B) \$144,000	C) \$67,200	D) \$23,000		
Explanation:	A)					
	B)					
		,800) / .30 = \$480,000	and X = \$67,200			
	D)					
16) Which of the for salaries?	ollowing wou	uld be a good cost dr	iver for salaries of produ	uct and supervisory	16)	
salaries.		· ·	iver for salaries of produ	. ,		
salaries.		· ·	t driver for salaries of pr	, ,		
	of departmer ory salaries.	nt transactions is a go	ood cost driver for salarie	es of product and		
	-	oervised is a good co	st driver for salaries of p	roduct and supervisory		
Answer: D						
Explanation:	A)					
	B) C)					
	D)					

 17) An increase in total variable cost usually indicates: A) variable costs per unit is increasing B) the cost-driver activity level is increasing C) variable costs per unit is decreasing D) the cost-driver activity level is decreasing 					17)
Answer: B Explanation:	A) B) C) D)				
18) is not A) Sales volu		e cost-volume-profi	t graph. B) The break-even	point	18)
C) The fixed	cost per unit			at any rate of activity	
Answer: C Explanation:	A) B) C) D)				
•	which \$6.25 i	s for direct materials	Each doll sells for \$20.00. Value and \$5.25 is for direct lab		19)
A) 72,500 do		B) 51,176 dolls	C) 31,071 dolls	D) 21,750 dolls	
Answer: A Explanation:	A) \$435,000 B) C) D)	/ (\$20 - \$14) = 72,500) dolls		
	20) If total fixed costs are \$84,000, contribution margin per unit is \$6.00, and targeted after-tax net income is \$18,000 with a 40% tax rate, then the number of units which must be sold is: A) 19,000 units B) 21,500 units C) 14,000 units D) 17,000 units				
Answer: A					
Explanation:	A) [\$84,000 B) C) D)	+ (\$18,000 / 0.6)] / \$6	.00 = 19,000 units		

21)	Rampart Hosp	ital has total	variable costs of 90%	of total revenues and fix	ked costs of \$50 million per	21)	
	patient necessa A) \$250 is th B) \$4,000 is t C) \$10,000 is	ry to breake e average d the average the average	even? aily revenue per pation daily revenue per pat e daily revenue per pa	ent next year. What is the a ent necessary to breakeve tient necessary to breaked atient necessary to breaked tient necessary to breaked	ven. even.		
	Answer: C						
	Explanation:	A) B) C) \$50,000	,000 / (190) = \$500,	000,000;			
		\$500,00 D)	0,000 / 50,000 = \$10,0	00			
22)	The following i	nformation	is for Center Corpora	ation:		22) _	
	Total fixed Variable co Selling prio	osts per unit	\$313,500 \$99 \$154				
	should be:	_		,400 (ignore income taxes			
	A) \$1,044,12	0	B) \$239,721	C) \$580,067	D) \$671,220		
	Answer: A Explanation:	A) (\$313,5 B) C) D)	00 + \$59,400) / [(\$154	- \$99) / \$154] = \$1,044,12	20		
23) .			isually indicates:			23)	
A) relevant range is decreasing C) relevant range is increasing			•	B) cost driver active) cost driver actives			
	Answer: C Explanation:	A) B) C) D)					

24) Burning Com	pany, a prod	ucer of salsa, has the f	following information:		24)
	ice per unit cost per unit	30% \$5.00 \$3.00 \$90,000.00			
The break-ev A) \$180,000		ollars is: B) \$225,000	C) \$270,000	D) \$150,000	
Answer: B Explanation:	•	/ (\$5.00 - \$3.00) = 45, units x \$5.00 = \$225,00			
25) is al A) Variable C) Gross m Answer: A Explanation:	e-cost ratio	sts divided by sales.	B) The sales mix D) Contribution-m	argin ratio	25)
A) Decreas		ompany's break-even g price per unit ed costs	B) Increasing varia	ble cost per unit ibution margin per unit	26)
A) increaseB) decreaseC) increase	s profits faste es profits at tl s profits slow	er than does a low con ne same rate as a low co ver than does a low co	ntribution-margin percentribution-margin percent contribution-margin percentribution-margin percentribution-margin percentribution-margin percentribution-margin percentribution-margin percentribution-margin percentribution	tage entage ntage	27)

28)	Cuyahoga County Hospital has overall variable costs of 75% of total revenues and fixed costs of \$40 million per year. There are 40,000 patient-days estimated for next year. The average daily revenue					28)	_
	per patient nec		akeven is:	•			
	A) \$250		B) \$20,000	C) \$1,000	D) \$4,000		
	Answer: D Explanation:	A) B) C) D) \$40 mill	ion / (175);				
		\$160 mi	Hion / 40,000 = \$4,000)			
29)	9) If the sales price per unit is \$20, the unit contribution margin is \$8, and total fixed costs are \$24,000, the break-even point in units is:						_
	A) 2,000		B) 1,200	C) 3,000	D) 857		
	Answer: C Explanation:	A) B) C) \$24,000 D)	/ \$8 = 3,000 units				
30)	If targeted after	r-tax net inc	ome is \$67,500 with a	a 40% tax rate, contributi	on margin per unit is \$2.00,	30)	
	and total fixed A) 241,250 u		70,000, then the numb B) 218,750 units	oer of units which must b C) 167,250 units	oe sold is: D) 160,833 units		
	Answer: A						
	Explanation:	A) [\$370,00 B) C) D)	0 + (\$67,500 / 0.6)] / \$	62 = 241,250 units			
31)	Suppose the In	& Out Mote	l has annual fixed co	sts applicable to its room	ns of \$1.2 million for its	31)	
ŕ	300-room mote	el, average d	aily room rents of \$5	0, and average variable o	costs of \$10 for each room ear needed to breakeven is: D) 3.65%	, <u> </u>	
	Answer: B						
	Explanation:		00 / (\$50 - \$10) = 30,((300 x 365) = 27.4 per				
		C) D)					
32)	Given a break-	even point o	of 88,000 units and a (contribution margin per	unit of \$9.60, the total	32)	
ŕ	number of unit	s that must b	oe sold to reach a net	pre-tax profit of \$18,096	ś is:	,	_
	A) 1,885 unit Answer: B	12	B) 89,885 units	C) 88,000 units	D) indeterminable		
	Explanation:	A) B) 88,000 + C)	(\$18,096 / \$9.60) = 89	9,885 units			
		D)					

33) Output measures of both resources and activities are:A) stages of production			B) variable activities	33)	
C) fixed activities			D) cost drivers		
Answer: D					
Explanation:	A) B) C)				
	D)				
	e per unit is	\$100, the unit variable cos Iollar sales rounded to the	et is \$75, and total fixed cost	sts are \$150,000, then	34)
A) \$600,000		B) \$150,000	C) \$1,500	D) \$200,000	
Answer: A					
Explanation:	6,000 un	/ (\$100 - \$75) = 6,000 uni its x \$100 = \$600,000	ts		
	B) C) D)				
	,				
			e of \$18,000. Total fixed co x rate is 40%. The number		35)
be sold to earn	•				
A) 17,000 un	its	B) 14,000 units	C) 19,000 units	D) 21,500 units	
Answer: C					
Explanation:	A)				
	B) (\$94,000	+ (\$18,000 / .60)] / \$6.00 =	10 000 units		
	C) [\$64,000 D)	+ (\$10,0007.00)]7 \$0.00 =	17,000 units		
	,				
36) Assume the fol	lowing cost i	nformation for Donald Co	ompany:		36)
Selling pri	re ner unit	\$144			
	osts per unit	\$95			
Total fixed	•	\$80,000			
Tax rate		40%			
The break-eve	n noint in un	ite ie			
A) 556 units	•	B) 1,633 units	C) 500 units	D) 1,000 units	
Answer: B					
Explanation:	A)				
	•	' (\$144 - \$95) = 1,633 units	S		
	C)				
	D)				

 37) Number of engineering ho A) The production funct B) The research and deviver. C) The marketing function D) The design function I Answer: D Explanation: A) B) C) D) 	tion has number of er velopment function h on has number of en	ngineering hours as a li as number of engineer gineering hours as a lik	ikely cost driver. ing hours as a likely cost kely cost driver.	37)
38) An accountant may have of Anguery D.	n may cause the costs I by more than one co a nonlinear way	to be fixed in the short		38)
Answer: D Explanation: A) B) C) D)				
39) Four Alarm Company, a producer of salsa, has the following information:				
Income tax rate Selling price per unit Variable cost per unit Total fixed costs	30% \$5.00 \$3.00 \$90,000.00			
•	**************************************	C) 60%	D) 40%	
40) Which of the following sta A) There is a higher positive leveraged firm. B) Fixed costs are high at C) Large changes in sale D) All of these answers at Answer: D Explanation: A) B) C) D)	sibility of net income and variable costs are es volume result in la	or net loss and therefore low.	ore more risk than a highly	40)

41) If the sales price per unit is \$34, the unit variable cost is \$19, and the break-even point is 10,000 units, then the total fixed costs are:					41)
	A) \$150,000 B) \$190,000 C) \$340,000 D) \$530,000				
Answer: A		2) 4170,000	3) 40 10/000	<i>D</i>) \$000,000	
Explanation:	, ,	- \$19) = 10,000 000 x \$15 = \$150,000			
300-room hote rented. It oper	el, average d ates 365 days	aily room rents of \$5	costs applicable to its room 60, and average variable co unt of net income on rooms re year is:	sts of \$10 for each room	42)
A) \$5,475,00	00	B) \$4,275,000	C) \$3,180,000	D) \$(1,188,000)	
Answer: C Explanation:	A)				
	B) C) [300 x 3 D)	65 x (\$50 - \$10)] - \$1	1,200,000 = \$3,180,000		
43) The horizontal	axis on the	cost-volume-profit	graph is the:		43)
A) net incor		, , , , , , , , , , , , , , , , , , ,	B) sales volume in	units	,
C) dollars o	f cost		D) dollars of rever	iue	
Answer: B					
Explanation:	A) B) C) D)				
	,				
			ells for \$20.00. Variable cos		44)
			for direct labor. If the break	k-even volume in dollars	
A) \$1,446,000, t		fixed costs for the page B) \$433,800	eriod must be: C) \$361,500	D) \$516,425	
	JU	D) \$433,000	C) \$301,500	D) \$310,423	
Answer: B Explanation:	A)				
Explanation.	B) [X / (\$20X = X = \$43	0 - \$14)] x \$20 = \$1,4 \$1,446,000 x (\$20 - \$ 3,800			
	C) D)				

45) Fixed costs:					45)
B) are fixed C) vary on a	on a per-uni per-unit bas	sis, but are fixed in t basis, and fixed in sis, and vary in tota	total I		
D) are fixed	on a per-uni	t basis, but vary in	total		
Answer: A Explanation:	A) B) C) D)				
46) Which value c	hain function	would include adv	vertising costs?		46)
A) The procB) The distrC) The custo	luction functi ibution funct omer service	on would include a ion would include a	dvertising costs. advertising costs. lude advertising costs.		, <u></u>
Answer: D					
Explanation:	A)				
	B) C)				
	D)				
47) On Fire Comp	any, a produ	cer of salsa, has the	following information:		47)
Income tax	κ rate	30%			
Selling pri	ce per unit	\$5.00			
	ost per unit	\$3.00			
Total fixed	l costs	\$90,000.00			
The contributi	on margin pe				
A) \$3.00		B) \$8.00	C) \$2.00	D) \$5.00	
Answer: C	^				
Explanation:	A) B)				
	•	33.00 = \$2.00			
	D)	75.55 = \$2.55			
48) The following	information	is for Allen Corpora	ation:		48)
Total fixed	d costs	\$313,500			
	osts per unit	\$101			
Selling pri	ice per unit	\$163			
The contribution A) 64.3%	on-margin ra	itio is: B) 55.6%	C) 38.0%	D) 35.7%	
Answer: C		_,	2, 23.070	2, 30.7.0	
Explanation:	A)				
	B) C) (\$163 - 9	\$101) / \$163 = 38.04	nercent		
	D)	, . 3 . j , \$ 100 – 00.0 1	P 00111		

49) Clare Company currently sells 19,000 units. Total fixed costs are \$84,000, and the contribution margin per unit is \$6.00. Clare's tax rate is 40%. The margin of safety in units is:					49)
A) 7,500 uni		B) 14,000 units	C) 3,000 units	D) 5,000 units	
Answer: D					
Explanation:	A) B)				
	C)				
		(\$18,000 / .60)] / \$6. its - (\$84,000 / \$6.00)			
		,			>
	activity decreates per unit deci	ases within the relev	ant range:		50)
	iable costs incr				
		emain unchanged			
D) total fixe	d costs increas	е			
Answer: C					
Explanation:	A)				
	B) C)				
	D)				
51) Assume the fo	llowing cost in	formation for Marie	Company:		51)
Salling pri	co por unit	\$144			
	ce per unit osts per unit	\$144 \$80			
Total fixed	•	\$80,000			
Tax rate		40%			
If fixed costs in	ncreased by 10°	% and management	wanted to maintain the o	original break-even	
•	• • •	er unit would have		D) +450 40	
A) \$155.20		B) \$208.00	C) \$150.40	D) \$158.40	
Answer: C Explanation:	A)				
Ехріанаціон.	B)				
		(\$144 - \$80) = 1,250 ι	units at original break-ev	ven point;	
		(1.10) / X = 1,250			
		X = 1,250			
		00 / 1,250 = \$70.40 0.40 + \$80.00 = \$150.	40		
	D)	0.40 + \$00.00 - \$150.	40		
50)			66 111		50)
	w the activities related cost dr	s of an organization	arrect its costs. B) Cost driver		52)
C) Cost beh		17013	D) None of these a	nswers is correct.	
Answer: C			,		
Explanation:	A)				
	B)				
	C)				
	D)				

53) Knothole Comp	oany sells desks at	\$480 per desk. The	e costs associated with each	desk are as follows:	53)
Direct mate Direct labo Variable fa		\$195 126 51			
Total fixed cost A) \$1,573,560 C) \$456,840	•	e \$456,840. The bre	ak-even volume in dollars B) \$2,030,400 D) None of these answe		
Answer: B Explanation:	•	\$126 - \$51 = \$108; 8 = 4,230 desks; \$2,030,400	,		
	r. There are 40,000		f 75% of total revenues and nated for next year. The br		54)
A) \$160 million (C) \$40 million (C)	on		B) \$10 million D) None of these answer	rs is correct.	
Answer: A Explanation:	A) \$40 million / (B) C) D)	1 - 0.75) = \$160 mil	llion		
A) break-eve		ues equal expenses	and net income is zero is ca B) margin of safety D) contribution margin	alled the:	55)
Answer: A Explanation:	A) B) C) D)				
56) Assume the fol	lowing cost inform	nation for Melissa (Company:		56)
Selling pri Variable co Total fixed Tax rate	sts per unit	\$144 \$80 \$80,000 40%			
A) \$252,000 Answer: C Explanation:	A) B) \$2	216,000	-tax net income of \$24,000. C) \$270,000	D) \$315,000	
	C) [\$80,000 + (\$24 1,875 x \$144 = D)	4,000 / 0.6] / (\$144 - \$270,000	\$80) = 1,875 units		

57) Suppose a Comfort Inn motel has annual fixed costs a 300-room motel, average daily room rents of \$50, and rented. It operates 365 days per year. The break-even A) 30,000 rooms C) 24,000 rooms), and average variable cos even point in number of ro B) 120,000 rooms	nd average variable costs of \$10 for each room no point in number of rooms rented is:		
Answer: A Explanation:	A) \$1,200,0 B) C) D)	00 / (\$50 - \$10) = 30,0	00 rooms			
300-room mot rented. It opera	el, average d ates 365 days If full throug	aily room rents of \$50	costs applicable to its room 0, and average variable cos t of net income on rooms t s: C) \$990,000	ts of \$10 for each room	58)	
Answer: C Explanation:	A) B) C) [.5 x 300 D)	x 365 x (\$50 - \$10)] -	\$1,200,000 = \$990,000			
59) The following	information	is for Albion Corpora	tion:		59)	
	l costs osts per unit ce per unit	\$313,500 \$99 \$154				
If managemen	•	ed net income of \$46,	200 (ignore income taxes),	then the number of		
A) 6,540 uni Answer: A		B) 5,700 units	C) 2,336 units	D) 2,036 units		
Explanation:	A) (\$313,50 B) C) D)	0 + \$46,200) / (\$154 -	\$99) = 6,540 units			
60) is the A) Operatin C) Break-ev	g leverage	d costs to variable cos	its. B) Contribution mai D) The margin of sa	•	60)	
Answer: A Explanation:	A) B) C)					

61) Like-U Company produces dolls. Each doll sells for \$20.00. Variable costs per unit total \$14.00, of which \$6.25 is for direct materials and \$5.25 is for direct labor. If total fixed costs are \$435,000, then the break-even volume in dollars is:					
A) \$1,450,00		B) \$1,023,529	C) \$435,000	D) \$621,429	
Answer: A					
Explanation:		00 / (\$20 - \$14) = 72,500 x \$20 = \$1,450,000	dolls;		
	B)				
	C) D)				
62) Andrew Comp	oany has the	e following information	ı:		62)
Income tax	c rate	40%			
Selling pri	ce per unit	\$7.50			
Variable co	ost per unit	\$2.50			
Total fixed	l costs	\$100,000			
If the tax rate of \$42,000.	decreases to	30%, fewer u	nits can be sold to retain t	the same net income of	
A) 1,000 uni	ts	B) 32,000 units	C) 34,000 units	D) 2,000 units	
Answer: D					
Explanation:	A)				
	B)				
	C)				
	[\$100,0	000 + (\$42,000 / 0.7)] / (\$	(7.50 - \$2.50) = 34,000 unii (7.50 - \$2.50) = 32,000 unii		
	2,000 ເ	inits is the difference.			
•			gin per unit is \$7.50, the ta er-tax net income will be:		63)
A) \$400,000	13 10 00 3010	B) \$280,000	C) \$350,000	D) \$877,500	
Answer: B					
Explanation:	A)				
	B) [\$350,0	000 + (X / 0.7) / \$7.50 =	100,000		
		00 + (X / 0.7) = \$750,000			
		= \$400,000			
	X = \$28	30,000			
	C)				
	D)				

Alpha and \$28 fixed costs of \$4,800 un B) 40,320 un C) 1,600 un	3.80 for \$53,760, its of Al nits of Al its of Al	mix of 3 units of Alpha for every 1 Beta, variable costs per unit of \$14 the break-even point in units wo pha and 1,600 units of Beta Alpha and 13,440 units of Beta pha and 4,800 units of Beta pha and 400 units of Beta	.40 for Alpha and	• .	64) _	
Answer: A						
Explanation:	A)	Sales Variable costs Contribution margin Sales mix Contribution margin per mix	Alpha \$21.60 14.40 \$7.20 <u>x 3</u> \$21.60	Beta \$28.80 <u>16.80</u> \$12.00 <u>x 1</u> <u>\$12.00</u>		
	To	tal contribution margin per mix =	\$21.60 + \$12.00 =	\$33.60		
	Br	eak-even point in composite units	s = \$53,760 / \$33.6	0 = 1,600		
		pha: 1,600 x 3 = 4,800 units ta: 1,600 x 1 = 1,600 units				
65) Managors sho	uld foci	us their efforts on managing:			65)	
A) productsB) activitiesC) revenues	and se require		vices			
Explanation:	A) B) C) D)					
. •		spital has total variable costs of 90 e are 50,000 patient-days estimate			66) _	

point expressed in total revenue?

A) \$500 million is the break-even point.

C) \$50 million is the break-even point.

B) \$12.5 million is the break-even point.

D) None of these answers is correct.

67) As the cost-dri	_		vithin the re	_			67)
A) fixed cost C) total varia Answer: A	•			B) variable cos D) total fixed of	-		
Explanation:	A) B) C)						
	D)						
68) Executive Amb as follows:	oience Comp	oany sells desks	at \$480 per	desk. The costs	s associatec	l with each desk are	68)
Direct mate Direct labo Variable fa		\$195 126 ead 51					
Total fixed cost A) 77.5%	ts for the per	riod are \$456,840 B) 40.6%). The contr	ibution-margii C) 22.5%	n ratio is:	D) 29.0%	
Answer: C Explanation:	A) B) C) \$480 - \$	s195 - \$126 - \$5	1 = \$108;				
	•	480 = 22.5%					
B) The prod C) The distri	eting function uction funct bution func	n would include on would includi ion would inclu tion would inclu function would	de depreciat de deprecia ude depreci	ion of plant an Ition of plant a ation of plant a	d machine nd machine ind machin	ry. ery. ery.	69)
Answer: B				•		j	
Explanation:	A) B) C) D)						
70) Variable costs:							70)
	per unit and in total as th	l vary in total e cost-driver ac	tivity level	increases			
Answer: B	• >						
Explanation:	A) B)						
	C)						
	D)						

71) Desks R' Us C follows:	orporation sells des	sks at \$480 per des	k. The costs associated with	each desk are as	71)
TOHOWS.					
Direct ma		\$195			
Direct lab		126			
Variable f	actory overhead	51			
Total fixed cos A) 952 desk	•	e \$456,840. The bre 230 desks	eak-even point in desks is: C) 5,458 desks	D) 1,228 desks	
Answer: B					
Explanation:	A)				
	· ·	\$126 - \$51 = \$108;			
		8 = 4,230 desks			
	C)				
	D)				
72) Which value o	hain function woul	d include deprecia	ation on transportation cost	?	72)
•		•	depreciation on transportat		·
B) The disti	ibution function w	ould include depre	eciation on transportation c	ost.	
			ciation on transportation co		
D) The mar	keting function wo	uld include depred	iation on transportation cos	st.	
Answer: B					
Explanation:	A)				
	B)				
	C) D)				
	D)				
73) The margin of	safety:				73)
	ow actual sales diff	er from planned sa	ales		´ ——
B) is the sal	es price minus all t	he fixed expenses			
	me as contribution i				
D) equals p	lanned unit sales le	ss break-even uni	t sales		
Answer: D					
Explanation:	A)				
	B)				
	C) D)				
	D)				
74) Up In Smoke	Company, a produc	cer of salsa, has the	e following information:		74)
Income ta	x rate	30%			
Selling pr	ice per unit	\$5.00			
	ost per unit	\$3.00			
Total fixed	d costs \$9	0,000.00			
muc	t he sold to obtain a	targeted income	pefore taxes of \$30,000.		
A) 27,000 u),000 units	C) 45,000 units	D) 10,000 units	
Answer: B	5 <i>b)</i> 00	Jood Wills	5) 10,000 dilits	2) 10,000 dilits	
Explanation:	A)				
	•	,000) / (\$5.00 - \$3.0	00) = 60,000 units		
	C)	, (1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	, , , , , , , , , , , , , , , , , , , ,		
	D)				

75) Relevant range	e applies to:		75)
A) the varia		B) both fixed and variable costs	
•	er activity levels	D) fixed costs	
Answer: B			
Explanation:	A)		
	B) C)		
	D)		
	_,		
76) As the cost dri	ver activity level decreases within the		76)
	costs per unit decreases	B) total fixed costs increase	
C) total vari	able costs decrease	D) fixed costs per unit decreases	
Answer: C			
Explanation:	A)		
	B)		
	C)		
	D)		
77) is no	t an underlying assumption of the cos	st-volume-profit graph.	77)
	s and expenses are nonlinear over the		, <u> </u>
	y and productivity will be unchanged		
C) Sales mix	will be constant		
D) Expenses	are categorized into variable and fixe	ed costs	
Answer: A			
Explanation:	A)		
	B)		
	C)		
	D)		
79) Oak Ni Moro C	Cornoration colle docks at \$490 por dos	sk. The costs associated with each desk are as	78)
follows:	or poration sens desks at \$400 per des	sk. The costs associated with each desk are as	
Direct mat	erials \$195		
Direct labo			
Variable fa	actory overhead 51		
T-1-1 61	to for the manifest over \$457,040. The same	Anthoration are controlled to the	
A) \$108	ts for the period are \$456,840. The cor B) \$195	ntribution margin per desk is: C) \$51 D) \$126	
•	D) \$173	C) \$31 D) \$120	
Answer: A	A) \$400 \$10E \$127 \$E1 \$100		
Explanation:	A) \$480 - \$195 - \$126 - \$51 = \$108 B)		
	C)		
	D)		
	,		

79)		_	total results under a new	condition, in comparisor	n with some given	79)
	or known cond A) detrimer C) compara			B) conditional effect D) incremental effect		
	Answer: D Explanation:	A) B) C) D)				
80)	The following	information is	or Joshua Corporation:			80)
		d costs costs per unit ice per unit	\$333,500 \$99 \$154			
	If total fixed co) \$394,850, then break-eve 3) 12.3%	en volume in dollars wou C) 18.4%	uld increase by: D) 10.0%	
	Answer: C Explanation:	A) B) C) (\$394,850 D)	· \$333,500) / \$333,500 = 18	3.40%		
SHORT A	ANSWER. Wri	te the word or	ohrase that best complete	es each statement or ansv	vers the question.	
81)	The relationsh	ip between an o	organization's activities an	d its costs	81)	
	Answer: Cost Explanation:	behavior				
82)	Companies wi	ith high contrib	ution-margin percentages	3	82)	
	Answer: Airli Explanation:	nes, cigarette, a	nd cosmetic companies			
83)	The range of a	ctivity over wh	ich the relationship betwe	en cost and activity is va	lid. 83)	
	Answer: Releve Explanation:	vant range				
84)	All variable co	osts divided by	sales.		84)	
	Answer: Varia	able-cost ratio				
85)	Cause the cons	sumption of cos	tly resources		85)	
	Answer: Cost Explanation:	drivers				
86)	A firm's ratio	of fixed and var	iable costs		86)	
	Answer: Oper Explanation:	rating leverage				

87) A cost that changes in direct proportion to changes in the cost driver	87)
Answer: Variable cost	
Explanation:	
88) The horizontal axis of the CVP graph	88)
Answer: Sales volume	
Explanation:	
20) The study of the effects of output values an ealer costs and profit	00)
89) The study of the effects of output volume on sales, costs, and profit Answer: Cost-volume-profit analysis	89)
Explanation:	
90) Another name for gross profit	90)
Answer: Gross margin	
Explanation:	
91) Total contribution margin / total sales	91)
Answer: Contribution-margin percentage	
Explanation:	
02) The change in total results (such as revenue expanses, or income) under a new condition in	02)
92) The change in total results (such as revenue, expenses, or income) under a new condition in comparison with some given or known condition.	92)
Answer: Incremental effect	
Explanation:	
93) The relationship between sales and variable costs	93)
Answer: Contribution margin	
Explanation:	
OA) The second model is a being between the cost and the cost drives	0.4)
94) The assumed relationship between the cost and its cost driver	94)
Answer: Linear Explanation:	
Explanation.	
95) The cost of advertisements is part of this value-chain function	95)
Answer: Marketing	
Explanation:	
96) The sales price minus the cost of goods sold	96)
Answer: Gross profit	
Explanation:	
97) The relative proportion or combinations of quantities of products that constitute total sales	97)
Answer: Sales mix	
Explanation:	
09) A cost that is not immediately affected by changes in the cost driver	09)
98) A cost that is not immediately affected by changes in the cost driver Answer: Fixed cost	98)
Explanation:	

99)	The vertical axis of the CVP graph	99)
	Answer: Dollars of cost and revenue Explanation:	
100)	The level of sales at which the contribution margin equals the fixed cost	100)
	Answer: Break-even point Explanation:	
101)	The behavior of revenues and expenses on the CVP graph	101)
	Answer: Linear Explanation:	
102)	At any given volume, this distance on the CVP graph measures the net income or net loss	102)
	Answer: Vertical distance between the sales line and the total expenses line Explanation:	
103)	(change in volume in units) x (contribution margin per unit) x (1 - tax rate)	103)
	Answer: Change in net income Explanation:	
104)	Net income / (1 - tax rate)	104)
	Answer: Income before income taxes Explanation:	
105)	On the CVP graph, where the total expenses line crosses the sales line	105)
	Answer: Break-even point Explanation:	
106)	A firm's ratio of fixed to variable costs	106)
	Answer: Operating leverage Explanation:	
107)	Total fixed expenses / contribution-margin ratio	107)
	Answer: Break-even volume in dollars Explanation:	
108)	The cost of the merchandise that a company acquires or produces and then sells	108)
	Answer: Cost of goods sold Explanation:	
109)	The relative proportions or combinations of quantities of products that comprise total sales	109)
	Answer: Sales mix Explanation:	
110)	The difference between planned sales and break-even sales	110)
	Answer: Margin of safety Explanation:	

11	1) Shows how far sales can fall below the planned level of sales before losses occur	111)		
	Answer: Margin of safety Explanation:	-		
11:	2) Total fixed expenses / unit contribution margin	112)		
	Answer: Break-even volume in units Explanation:			
11:	3) A cost that does not change in total as the volume increases, assuming the volume is within the relevant range	113) _		
	Answer: Fixed cost Explanation:			
114	4) The planned or desired net income	114) _		
	Answer: Target profit Explanation:			
11!	5) A good cost driver for maintenance wages	115) _		
	Answer: Number of mechanic hours Explanation:			
110	6) (fixed expenses + target net income) / unit contribution margin	116) _		
	Answer: Target sales volume in units Explanation:			
TRUE/F	ALSE. Write 'T' if the statement is true and 'F' if the statement is false.			
11 ⁻	7) Sales volume of a given product helps guide executives who must decide to emphasize or deemphasize particular products.		117) _	
	Answer: True • False Explanation:			
118	8) Break-even volume in dollars = variable costs / contribution-margin ratio.		118)	
	Answer: True False Explanation:			
119	9) The horizontal axis on the CVP graph is the dollars of cost and revenue.		119)	
	Answer: True False Explanation:			
120	0) A good example of a cost driver for production labor wages is the number of machine hours.		120)	
	Answer: True • False Explanation:			
12	1) Margin of safety = actual unit sales - planned unit sales.		121) _	
	Answer: True False Explanation:			

122)	Highly leveraged compa	anies have low fixed costs and high variable costs.	122)	
	Answer: True © Explanation:	False	•	
123)	A good example of a cossupervised.	at driver for production supervisor salaries is the number of people	123)	
	•	False		
124)	The relevant range is the costs and the cost driver	e limit of cost-driver activity within which a specific relationship between is valid.	124)	
	Answer: True Explanation:	False		
125)		anies are less risky than companies with low leverage.	125)	
	Answer: True © Explanation:	False		
126)	•	igh contribution-margin percentage is the airlines.	126)	
	Answer: ⊘ True Explanation:	False		
127)	_	ales price - all variable expenses. False	127)	
	Explanation:	raise		
128)		y affect a cost at any given time.	128)	
	Answer: True © Explanation:	False		
129)	The break-even point is line on a cost-volume-p	located at the intersection of the total revenue line and the total expenses	129)	
	-	False		
130)	•	nit sold does not generate marginal income.	130)	
	Answer: True © Explanation:	False		
131)		umption of cost-volume-profit analysis is that costs can be classified as vith respect to a single measure of the volume of output activity.	131)	
	Answer: True Explanation:	False		
132)	Cost of goods sold is the sells.	cost of the merchandise that a company acquires or produces and then	132)	
	Answer: True Explanation:	False		

133)	Target sales volu	ıme in units = (variable expenses + target net income) / unit contribution margin.	133)
	Answer: True Explanation:	e Palse	
134)	Total contribution	n margin / total sales = 100% - variable cost percentage.	134)
	Answer: True Explanation:	e False	
135)	The incremental condition.	approach means that a manager focuses on the effects of changes from the current	135)
	Answer: True Explanation:	e False	
136)	Gross margin is t	the same as contribution margin.	136)
	Answer: True Explanation:	e Se False	
137)	Small increases in	n profits occur for high contribution-margin ratio companies when sales grow.	137)
	Answer: True Explanation:	e O False	
138)		anies that spend heavily for advertising are willing to do so because they have low rgin percentages.	138)
	Answer: True Explanation:	e Se False	
139)	The income state Income	ement can be expressed as: Sales - Variable Expenses - Fixed Expenses = Net	139)
	Answer: True Explanation:	e False	
140)	Cost drivers are o	output measures of both resources and activities.	140)
	Answer: True Explanation:	e False	
141)	Only managers o	of profit-seeking organizations find that the cost-volume-profit analysis is useful.	141)
	Answer: True Explanation:	e Salse	
142)	The break-even	point is the level of sales at which revenue equals fixed costs.	142)
	Answer: True Explanation:	e 👂 False	
143)	A fixed cost chan	nges in direct proportion to changes in a cost driver.	143)
	Answer: True	e Sealse	

144)	The benefits of increases.	reased accuracy of using a computer model in CVP analysis always exceed the	144)
	Answer: True Explanation:	False	
145)	The sales mix is the total sales.	e relative proportions or combinations of quantities of products that constitute	145)
	Answer: True Explanation:	False	
146)	Gross margin focus	ses on sales in relation to variable cost.	146)
	Answer: True Explanation:	False	
147)	On a day-to-day b services.	pasis managers must manage the activities required to make products and	147)
	Answer: True Explanation:	False	
148)	A change in the tax	x rate will not affect the break-even point.	148)
	Answer: True Explanation:	False	
149)	In highly leveraged income.	d companies, small changes in sales volume result in large changes in net	149)
	Answer: True Explanation:	False	
150)		osts, two rules of thumb are useful: (1) think of fixed costs on a per-unit basis; riable costs as a total.	150)
	Answer: True Explanation:	False	
151)	A small margin of	safety may indicate a risky situation.	151)
	Answer: True Explanation:	False	
152)	Costs may behave	in a linear and nonlinear way.	152)
	Answer: True Explanation:	False	
153)	An assumption of	the CVP analysis is that changes in efficiency or productivity are expected.	153)
	Answer: True Explanation:	False	
154)	The CVP graph sho	ows profit and loss at any rate of activity.	154)
	Answer: ○ True Explanation:	False	

155)	The margin of safety is	the difference between planned unit sales and break-even sales.	155)	
	Answer: O True	False	•	
	Explanation:			
156)	A kev factor in controlli	ing costs is associating costs with activities.	156)	
,	Answer: ○ True	False		
	Explanation:			
457\			457	
15/)		ans, costs become more fixed and less variable.	157)	
	Answer: True Explanation:	False		
	Explanation.			
158)	Manufacturers of indus	trial equipment have high contribution-margin percentages.	158)	
	Answer: True 💿	False		
	Explanation:			
159)	Break-even volume in u	units = fixed costs / unit contribution margin.	159)	
,	Answer: ○ True	False		
	Explanation:			
160)	.	e assumption that costs are linear over the relevant range.	160)	
	Answer: True	False		
	Explanation:			
161)	An assumption of the C	VP analysis is that the difference in inventory level at the beginning and at	161)	
	the end of a period is in	significant.	•	
	Answer: Variable True	False		
	Explanation:			
162)	Cost behavior pertains t	to how costs affect the activities of an organization.	162)	
·	Answer: True	False		
	Explanation:			
17.2)	On the CVD graph the	harizantal difference between the color line and the total expenses line	1(2)	
103)	measures the net incom	horizontal difference between the sales line and the total expenses line e or net loss.	163)	
		False		
	Explanation:			
17.4	Cross margin salss or	sies agest of goods sold	1(4)	
104)	Gross margin = sales pr Answer: True	False	164)	
	Explanation:	raise		
	r			
165)	Gross profit margin is the	he sales price minus the variable cost per unit.	165)	
		False		
	Explanation:			
166)	Operating leverage is th	ne ratio of fixed costs to variable costs.	166)	
	Answer: True	False	-	
	Explanation:			

167)	The margin of safety occur.	y shows how far sales can fall below the planned level of sales before losses	167)
	Answer: True Explanation:	False	
168)	Target sales - variab	ple expenses - fixed expenses = target net income.	168)
	Answer: True Explanation:	False	
169)	Selling expenses are	found in the cost of goods sold.	169)
	Answer: True Explanation:	False	
170)	The CVP graph show	ws how costs behave over multiple relevant ranges.	170)
	Answer: True Explanation:	False	
171)	Income before incon	ne taxes = net income / marginal tax rate.	171)
	Answer: True Explanation:	False	
172)	When changes occur	r in the sales mix, there is no effect on the cost-volume-profit relationships.	172)
	Answer: True Explanation:	False	
173)	An assumption of th	ne CVP analysis is that the sales mix can fluctuate.	173)
	Answer: True Explanation:	False	
174)		urces, sales of every type of product cannot be maximized.	174)
	Answer: True Explanation:	False	
175)	•	mputer models used in CVP analysis depends on the accuracy of their	175)
	Answer: True	tions about how revenues and costs may actually be affected. False	
	Explanation:		
176)	The break-even point variable costs.	nt is when enough units are sold that total contribution margin equals total	176)
	Answer: True Explanation:	• False	
177)	The break-even point constant.	nt may be reduced by reducing total fixed costs and holding everything else	177)
	Answer: True Explanation:	False	

178) An increase in sales price would cause a decrease in the break-even point.

178)

Answer: Variable True

False Explanation:

179) The break-even point may be reduced by increasing the per unit variable cost.

179)

Answer:

True False **Explanation:**

180) At the break-even point, net income may be positive. False

180)

Answer: True

Explanation:

181) Sales mix concept is relevant for all companies, regardless of the number of units produced.

181)

False Answer: True Explanation:

ESSAY. Write your answer in the space provided or on a separate sheet of paper.

182) Dodger Company produces two products, X and Y. The following information is presented for both products:

<u>Y</u> X Selling price per unit \$36 \$46 Variable cost per unit \$38 \$24

Total fixed costs are \$234,000. Dodger Company plans to sell 21,000 units of product X and 7,000 units of product Y.

Compute:

- a. Contribution margin for each product
- b. Current net income
- c. Break-even point in units of both X and Y if the sales mix is 3 units of X for every unit of Y
- d. Break-even volume in total dollars if the sales mix is 2 units of X for every 3 units of Y

Answer: a. X: \$46 - \$38 = \$8

Y: \$36 - \$24 = \$12

b. $(21,000 \times \$8) + (7,000 \times \$12) - \$234,000 = \$18,000$

c. 21,000:7,000 = 3:1

 $(3 \times \$8) + (1 \times \$12) = \$36$

234,000 / 36 = 6,500 units

X: $6,500 \times 3 = 19,500 \text{ units}$

Y: $6,500 \times 1 = 6,500 \text{ units}$

d. $(2 \times \$8) + (3 \times \$12) = \$52$

\$234,000 / \$52 = 4,500 units

 $X: 4,500 \times 2 = 9,000 \times 46 = 414,000$

Y: $4,500 \times 3 = 13,500 \times 36 = 486,000$

Total dollar sales = \$900,000

183) Retread Company manufactures running shoes. The selling price per pair of shoes (one unit) averages \$80 and variable costs per pair are \$47.50. The sales volume of \$776,000 produces \$100,750 of net income before taxes.

Required:

- a. Compute total fixed costs.
- b. Compute total variable costs.
- c. Compute the break-even point in units.
- d. Compute the quantity of units above breakeven to reach targeted net income before taxes.

Answer: a. \$776,000 / \$80 = 9,700 units

9,700 x (\$80.00 - \$47.50) = \$315,250 \$315,250 - \$100,750 = \$214,500

- b. 9,700 units x \$47.50 = \$460,750
- c. \$214,500 / \$32.50 = 6,600 units
- d. 9,700 6,600 = 3,100 units
- 184) The Sweetheart Company, a producer of specialty cards, has asked you to complete several calculations based upon the following information:

Income tax rate30%Selling price per unit\$6.60Variable cost per unit\$5.28Total fixed costs\$46,200.00

Required:

- a. Compute the break-even point in units.
- b. Compute the sales volume necessary to produce an after-tax net income of \$13,028.40.
- c. Compute the total units sold to earn an after-tax net income of \$18,480.

Answer: a. \$46,200 / (\$6.60 - \$5.28) = 35,000 units

b. \$13,028.40 / 0.70 = \$18,612 \$18,612 + \$46,200 = \$64,812 \$64,812 / \$1.32 = 49,100 units 49,100 units x \$6.60 = \$324,060

c. \$18,480 / 0.70 = \$26,400 \$26,400 + \$46,200 = \$72,600 \$72,600 / \$1.32 = 55,000 units

185) Jefferson Company produces only product A. The following information is available:

Selling price per unit \$95 Variable costs per unit \$70 Total fixed costs \$130,000

Required:

- a. Compute break-even point in units.
- b. Compute break-even volume in dollars.
- c. Compute the margin of safety assuming planned unit sales of 6,000.

Answer: a. \$130,000 / (\$95 - \$70) = 5,200 units

- b. 5,200 units x \$95/unit = \$494,000
- c. 6,000 units 5,200 units = 800 units

186) Graybill Corporation gathered the following information:

Variable costs \$945,000 Income tax rate 40% Contribution-margin ratio 25%

Required:

- a. Compute total fixed costs assuming a break-even volume in dollars of \$1,610,000.
- b. Compute sales volume in dollars to produce an after-tax net income of \$210,000.

Answer: a. $$1,610,000 \times 0.25 = $402,500$

b. \$210,000 / (1 - .40) = \$350,000

(\$350,000 + \$402,500) / 0.25 = \$3,010,000

187) The following information is for Wood Products Corporation

Total fixed costs \$345,700 Unit variable costs \$50.95 Unit selling price \$68.50

Required:

- a. Compute the contribution margin per unit.
- b. Compute the contribution-margin ratio.
- c. Compute the break-even point in units.
- d. Compute the break-even volume in dollars.

Answer: a. \$68.50 - \$50.95 = \$17.55 per unit

- b. \$17.55 / \$68.50 = .2562
- c. \$345,700 / \$17.55 = 19,698 units
- d. 19,698 units x \$68.50 = \$1,349,313

188) What are the assumptions used for CVP analysis?

Answer: Expenses can be classified as totally variable or fixed. Total variable expenses vary directly with activity level. Total fixed expenses do not change with activity level.

The behavior of revenues and expenses is linear over the relevant range.

No change in efficiency or productivity is expected.

Sales mix remains constant.

The difference in inventory level at the beginning and at the end of a period is insignificant.

189) Bonnie and Clyde started the BC Restaurant in 20X0. They rented a building, bought equipment, and hired two employees to work full time at a fixed monthly salary. Utilities and other operating charges remain fairly constant during each month.

During the past two years, the business has grown with average sales increasing 1% a month. This situation pleases both Bonnie and Clyde, but they do not understand how sales can grow by one percent a month while profits are increasing at an even faster pace. They are afraid that one day they will wake up to increasing sales but decreasing profits.

Required:

Explain why the profits have increased at a faster rate than sales.

Answer: The fixed cost per meal served is decreasing with increased volumes, while the contribution margin per meal served remains constant. Apparently, most of the restaurant's expenses are fixed. Therefore, as sales pass the break-even point, the profit will increase even faster because the fixed expenses have already been covered. This allows sales to cover only variable expenses before contributing to the profit margin, thereby causing it to increase at a faster rate.

190) Too Hot To Handle Company produces fireworks and has provided the following information:

Total fixed costs	\$100,000
Unit variable costs	\$6
Planned unit sales	30,000

The break-even point is 25,000 units.

Required:

- a. Compute the selling price per unit.
- b. Compute the contribution-margin ratio.
- c. Compute the break-even volume in dollars.
- d. Compute the margin of safety.

Answer: a. \$100,000 / 25,000 = \$4 + \$6 = \$10

- b. \$4 / \$10 = 0.40
- c. 25,000 units x \$10 = \$250,000
- d. 30,000 25,000 = 5,000 fireworks
- 191) The Yetmar Family Restaurant is open 24 hours per day serving breakfast, lunch, and dinner. Fixed costs are \$24,000 per month. Variable costs are estimated at \$9.60 per meal. The average total bill (excluding tax and tip) is \$12 per customer.

Required:

- a. Compute the number of meals that must be served if the Family Restaurant wishes to earn a profit before taxes of \$6,000.
- b. Compute the break-even point in meals.
- c. Compute the break-even volume in dollars.
- d. Assume that fixed costs increase to \$30,000. How many additional meals must be served if the Yetmar Family Restaurant

wishes to earn the same before-tax profit?

Answer: a. (\$24,000 + \$6,000) / (\$12.00 - \$9.60) = 12,500 meals

- b. \$24,000 / (\$12.00 \$9.60) = 10,000 meals
- c. 10,000 meals x 12 per meal = 120,000
- d. (\$30,000 \$24,000) / (\$12.00 \$9.60) = 2,500 meals

192) Cleveland Manufacturing, Inc.'s most recent income statement is presented below:

Sales	\$450,000
Cost of goods sold	200,000
Gross margin	250,000
Other operating expenses	196,000
Operating income	\$54,000

Cleveland Manufacturing, Inc., has determined that \$50,000 of cost of goods sold and \$166,000 of operating expenses is fixed.

Required:

- a. Compute the contribution margin.
- b. Compute the contribution-margin percentage.
- c. Compute the break-even volume in sales dollars.
- d. Compute the current margin of safety.

```
Answer: a. Fixed costs = $50,000 + $166,000 = $216,000
Variable costs + $150,000 + $30,000 = $180,000
$450,000 - $180,000 = $270,000
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- b. \$270,000 / \$450,000 = 60%
- c. \$216,000 / 60% = \$360,000d. \$450,000 \$360,000 = \$90,000
- 193) A classmate is having difficulty understanding two sets of accounting terms, variable and fixed costs, as opposed to period and product costs. He understands that variable costs change during an accounting period while fixed costs do not. However, he explains that a period cost implies that it is for a period of time and is, therefore, also fixed. Does his assumption imply that all product costs are then variable?

Required: Assist your classmate in being able to distinguish between these terms.

Answer: First, you should explain that all costs should be first classified as either variable or fixed. This concept deals with cost behavior and not with what the costs are associated in the organization. Many decisions are made about costs because of the type of behavior they exhibit.

Second, a cost can be assigned to "why you are in business" activities (product costs) of the organization or to "support" activities (period costs) of the organization. For a manufacturing firm, period costs are all costs that have no direct relationship to the manufacturing process.

Using accounting terminology, you might explain that period costs are always expenses during the accounting period while product costs are included in inventory because they can be assigned to the products being produced.

194) Renew Tires has been in the tire business for five years. It rents a building but owns its equipment. All employees are paid a fixed salary except for the busy season (April - June), when temporary help is hired by the hour. Utilities and other operating charges remain fairly constant during each month except those in the busy season.

Selling prices per tire average \$50 except during the busy season. Because a large number of customers buy tires prior to winter, discounts run above average during the busy season. A 15% discount is given when two tires are purchased at one time. During the busy months, selling prices per tire average \$40.

The president of Renew Tires is somewhat displeased with the company's management accounting system because the cost behavior pattern displayed by the monthly break-even charts is inconsistent; the busy months' charts are different from the other months of the year. The president is never sure if the company has a satisfactory margin of safety or if it is just above the break-even point.

Required:

- a. What is wrong with the accountant's computations?
- b. How can the information be presented in a better format for the president?

Answer: a. The accounting system includes some assumptions about the CVP model that do not hold for Renew Tires. The CVP model requires cost and revenue to be linear. During the busy months, the company has cost and revenue that behave differently than during the other months of the year. The revenue line turns down (less slope) with the average selling price per tire decreasing from \$50 to \$40. The variable costs line probably turns upward (increasing slope) with the additional hourly workers being added to the work force.

- b. The accountant may want to present two sets of information regarding the revenue and cost behaviors of the company: one for the busy season and one for the other months of the year. It would show that while the break-even point actually increases during the busy months (a negative), the marginal income increases because of increased sales (a positive).
- 195) Oakdale Municipal Hospital has variable costs of \$80 million per year. These costs represent approximately 80% of the total revenues. There are 50,000 patient-days estimated for next year.

Required:

- a. What is the break-even point expressed in total revenue?
- b. What is the average daily revenue per patient necessary to breakeven?

Answer: a. \$80 million / (1 - 0.80) = \$400 million

b. \$400 million / 50,000 = \$8,000

1) B

2) C

3) C

4) A

5) C 6) D 7) C

8) A

9) D

10) C

11) B

12) A

13) C

14) D

15) C

16) D

17) B

18) C

19) A

20) A 21) C

22) A

23) C 24) B

25) A

26) C

27) A

28) D

29) C

30) A

31) B

32) B

33) D

34) A

35) C

36) B

37) D

38) D

39) D

40) D

41) A

42) C

43) B

44) B 45) A

46) D

47) C

48) C

49) D

50) C

- 51) C
- 52) C
- 53) B
- 54) A
- 55) A
- 56) C
- 57) A
- 50) 0
- 58) C
- 59) A
- 60) A
- 61) A
- 62) D
- 63) B
- 64) A
- 65) B
- 66) A
- 67) A
- 68) C
- 69) B
- 70) B
- 71) B
- 72) B
- 73) D
- 74) B 75) B
- 76) C
- 77) A
- 78) A
- 79) D
- 80) C
- 81) Cost behavior
- 82) Airlines, cigarette, and cosmetic companies
- 83) Relevant range
- 84) Variable-cost ratio
- 85) Cost drivers
- 86) Operating leverage
- 87) Variable cost
- 88) Sales volume
- 89) Cost-volume-profit analysis
- 90) Gross margin
- 91) Contribution-margin percentage
- 92) Incremental effect
- 93) Contribution margin
- 94) Linear
- 95) Marketing
- 96) Gross profit
- 97) Sales mix
- 98) Fixed cost
- 99) Dollars of cost and revenue
- 100) Break-even point

- 101) Linear
- 102) Vertical distance between the sales line and the total expenses line
- 103) Change in net income
- 104) Income before income taxes
- 105) Break-even point
- 106) Operating leverage
- 107) Break-even volume in dollars
- 108) Cost of goods sold
- 109) Sales mix
- 110) Margin of safety
- 111) Margin of safety
- 112) Break-even volume in units
- 113) Fixed cost
- 114) Target profit
- 115) Number of mechanic hours
- 116) Target sales volume in units
- 117) FALSE
- 118) FALSE
- 119) FALSE
- 120) FALSE
- 121) FALSE
- 122) FALSE
- 123) TRUE
- 124) TRUE
- 125) FALSE
- 126) TRUE
- 127) TRUE
- 128) FALSE 129) TRUE
- 130) FALSE
- 131) TRUE 132) TRUE
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- 144) FALSE
- 145) TRUE
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- 147) TRUE
- 148) TRUE
- 149) TRUE
- 150) FALSE

- 151) TRUE 152) TRUE 153) FALSE 154) TRUE 155) TRUE 156) TRUE 157) TRUE 158) FALSE 159) TRUE 160) TRUE 161) TRUE 162) FALSE 163) FALSE 164) TRUE 165) FALSE 166) TRUE 167) TRUE 168) TRUE 169) FALSE 170) FALSE 171) FALSE 172) FALSE 173) FALSE 174) TRUE 175) TRUE 176) FALSE 177) TRUE 178) TRUE 179) FALSE 180) FALSE 181) FALSE 182) a. X: \$46 - \$38 = \$8 Y: \$36 - \$24 = \$12 b. $(21,000 \times \$8) + (7,000 \times \$12) - \$234,000 = \$18,000$ c. 21,000:7,000 = 3:1 $(3 \times \$8) + (1 \times \$12) = \$36$ \$234,000 / \$36 = 6,500 units $X: 6,500 \times 3 = 19,500 \text{ units}$ Y: $6,500 \times 1 = 6,500 \text{ units}$ d. $(2 \times \$8) + (3 \times \$12) = \$52$ \$234,000 / \$52 = 4,500 units $X: 4,500 \times 2 = 9,000 \times 46 = 414,000$ Y: $4,500 \times 3 = 13,500 \times 36 = 486,000$
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