Introduction to Management Accounting Chapters 1 to 17 13th Edition Horngren Test Bank Full Download: http://alibabadownload.com/product/introduction-to-management-accounting-chapters-1-to-17-13th-edition-horngi Exam Name MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question. 1) _____ is the excess of sales over the cost of goods sold. 1) A) The sales mix B) Gross margin C) Contribution-margin ratio D) Variable-cost ratio Answer: B Explanation: A) B) C) D) 2) If the proportions in a sales mix change, the: 2) 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: 3) 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: 4) 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)

- B)
- C)
- D)

5) Which of the following is not a cost driver of customer services costs?					5)	
 A) Hours spent servicing products are not a cost driver of customer services costs. B) Number of service calls is not a cost driver of customer services costs 						
C) Travel co	sts are not a c	cost driver of cus	tomer servi	ces costs.		
D) All of the	se answers ai	re correct.				
Answer: C	۸)					
	A) B)					
	C)					
	D)					
6) Assume the fol	lowing cost i	nformation for Z	achary Con	npany:		6)
Selling pric	e per unit	\$144				
Variable co	osts per unit	\$80				
Total fixed	costs	\$80,000 40%				
TaxTate		4070				
must	be sold to ea	rn an after-tax n	et income o	f \$40,800.		
A) 3,700 unit	S	B) 1,594 units	C	c) 1,063 units	D) 2,313 units	
Answer: D	Δ)					
	B)					
	C)					
	D) [\$80,000	+ (\$40,800 / 0.6)]	/ (\$144 - \$8	0) = 2,312.5 or 2	,313 units	
7) If the sales pric	e per unit is s	\$180, variable co	st per unit i	s \$96, targeted n	net income is \$52,800, and	7)
total fixed costs	s are \$39,600,	the number of u	nits that mu	ist be sold is:		
A) 963		B) 513	C	;) 1,100	D) 629	
Answer: C	۸)					
	A) B)					
	C) (\$52,800	+ \$39,600) / (\$18	0 - \$96) = 1,	100 units		
	D)					
8) If the sales pric	e per unit is s	\$100, the total fix	ed costs are	\$75,000, and th	e break-even volume in	8)
A) \$70	200,000, 1101	B) \$30	C	:) \$100	D) \$75,000	
Answer: A						
Explanation:	A) \$75,000 /	/ [(\$100 - X) / \$10	0] = \$250,00	0		
	\$75,0007 3 = (\$10	\$250,000 = (\$100 0 - X) / \$100	J - X) / \$100			
	\$30 = (\$1	100 - X)				
	\$70 = X	-				
	B)					
	C) D)					
	,					

9) is the relative proportions or combinations of quantities of products that comprise total sales					
A) Variable C) Gross ma	-cost ratio argin		B) Contribution-mar D) Sales mix	gin ratio	
Answer: D Explanation:	A) B) C) D)				
10) Meredith Com and the contril must be sold to	pany wishes oution margir o breakeven i	to earn after-tax net i n per unit is \$6.00. Me s:	ncome of \$18,000. Total fixe redith's tax rate is 40%. The	ed costs are \$84,000, e number of units that	10)
A) 19,000 ur	nits	B) 21,500 units	C) 14,000 units	D) 17,000 units	
Answer: C Explanation:	A) B) C) \$84,000 / D)	/ \$6.00 = 14,000 units			
11) Muy Mal Com	pany, a prod	ucer of salsa, has the f	following information:		11)
Income tax	rate	30%			
Selling pri	ce per unit	\$5.00			
Variable co	ost per unit	\$3.00			
Total fixed	costs	\$90,000.00			
must	be sold to ob	tain a targeted after-	tax income of \$14,000.		
A) 45,000 ur	nits	B) 55,000 units	C) 52,000 units	D) 60,000 units	
Answer: B					
Explanation:	A) B) [\$90,000 C) D)	+ (\$14,000 / 0.7)] / (\$5	.00 - \$3.00) = 55,000 units		
12) If targeted sale unit is \$1.20. th	es volume in u	units is 62,300, total fix ed net income is:	xed costs are \$31,200, and c	contribution margin per	12)
A) \$43,560		B) \$74,760	C) \$31,200	D) \$37,440	
Answer: A					
Explanation:	A) (\$31,200 B) C) D)	+ X) / \$1.20 = 62,300 a	nd X = \$43,560		

13) If fixed expense	es were the sa	ame and contribution	n margin per unit was cu	it in half, then the	13)	
break-even po A) be the sa C) double	int would: me		B) be undetermin D) be cut in half	able		
Answer: C Explanation:	A) B) C) D)					
 14) Which value c to develop the A) The distr B) The proc C) The mari D) The desig Answer: D Explanation: 	hain function prototype of a ibution function luction function gn of product, A) B) C) D)	would include the c a product? on would include the n would include the n would include the services, and proces	ost of computer-aided d nese costs. ese costs. se costs. sses function would inclu	esign equipment and cost ude these costs.	14)	
15) If the contribution dollars is \$480	tion-margin r ,000, then tota	atio is 0.30, targeted I fixed costs are: B) \$144,000	net income is \$76,800, ar	nd targeted sales volume in	15)	
Answer: C Explanation:	A) B) C) (X + \$76,8 D)	800) / .30 = \$480,000	and X = \$67,200	D) \$23,000		
16) Which of the fo	ollowing wou	ld be a good cost dri	iver for salaries of produ	ct and supervisory	16)	
A) Number salaries. B) Number salaries. C) Number supervis D) Number salaries.	of hours work of customers s of departmen ory salaries. of people sup	ked is a good cost dr served is a good cos t transactions is a go ervised is a good cos	iver for salaries of produ t driver for salaries of pro bod cost driver for salarie st driver for salaries of p	act and supervisory oduct and supervisory as of product and roduct and supervisory		
Answer: D Explanation:	A) B) C) D)					

17)	An increase in A) variable of B) the cost-of C) variable of D) the cost-of	total variable costs per unit driver activit costs per unit driver activit	e cost usually indicate is increasing y level is increasing is decreasing y level is decreasing	es:		17)
	Answer: B Explanation:	A) B) C) D)	, J			
18)	A) Sales volu C) The fixed	shown in th ume in units cost per unit	e cost-volume-profi	t graph. B) The break-even p D) The profit or loss a	oint at any rate of activity	18)
	Answer: C Explanation:	A) B) C) D)				
19)	Squeeze Me Co total \$14.00, of \$435,000, then	ompany prod which \$6.25 the break-ev	luces Beanie Babies. I is for direct materials en point is:	Each doll sells for \$20.00. Va and \$5.25 is for direct labor	ariable costs per unit r. If total fixed costs are	19)
	A) 72,500 do	lls	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 co income is \$18,0 A) 19,000 un	sts are \$84,00 00 with a 409 its	00, contribution marg % tax rate, then the n B) 21,500 units	in per unit is \$6.00, and targ umber of units which must C) 14,000 units	geted after-tax net be sold is: D) 17,000 units	20)
	Answer: A Explanation:	A) [\$84,000 B) C) D)	+ (\$18,000 / 0.6)] / \$6	.00 = 19,000 units		

21) Rampart Hospital has total variable costs of 90% of total revenues and fixed costs of \$50 million per 21) year. There are 50,000 patient-days estimated for next year. What is the average daily revenue per patient necessary to breakeven? A) \$250 is the average daily revenue per patient necessary to breakeven. B) \$4,000 is the average daily revenue per patient necessary to breakeven. C) \$10,000 is the average daily revenue per patient necessary to breakeven. D) \$1,000 is the average daily revenue per patient necessary to breakeven. Answer: C Explanation: A) B) C) \$50,000,000 / (1 - .90) = \$500,000,000;\$500,000,000 / 50,000 = \$10,000 D) 22) The following information is for Center Corporation: 22) Total fixed costs \$313,500 Variable costs per unit \$99 Selling price per unit \$154 If management has a targeted net income of \$59,400 (ignore income taxes), then sales revenue should be: A) \$1,044,120 B) \$239,721 C) \$580,067 D) \$671,220 Answer: A Explanation: A) (\$313,500 + \$59,400) / [(\$154 - \$99) / \$154] = \$1,044,120 B) C) D) 23) An increase in fixed costs usually indicates: 23) A) relevant range is decreasing B) cost driver activity is decreasing C) relevant range is increasing D) cost driver activity is increasing Answer: C Explanation: A) B)

C) D) 24) Burning Company, a producer of salsa, has the following information:

Income ta: Selling pri Variable c Total fixed	k rate ce per unit ost per unit l costs	30% \$5.00 \$3.00 \$90,000.00			
The break-eve A) \$180,000	n point in do	lars is: B) \$225,000	C) \$270,000	D) \$150,000	
Answer: B Explanation:	A) B) \$90,000 / 45,000 ui C) D)	(\$5.00 - \$3.00) = 45, hits x \$5.00 = \$225,00	000 units; 10		
25) is all A) Variable C) Gross ma	variable cost: -cost ratio argin	s divided by sales.	B) The sales mix D) Contribution-m	argin ratio	25)
Answer: A Explanation:	A) B) C) D)				
26) will A) Decreasi C) Reducing Answer: C	decrease a cor ng the selling g its total fixed	npany's break-even price per unit d costs	point. B) Increasing varia D) Increasing contr	ble cost per unit ibution margin per unit	26)
Explanation:	A) B) C) D)				
 27) As sales exceed A) increases B) decreases C) increases D) increases 	d the break-e s profits faster s profits at the s profits slowe s profits at the	ven point, a high cor than does a low con e same rate as a low co er than does a low co same rate as a low co	ntribution-margin percent ntribution-margin percent contribution-margin percent ntribution-margin percent contribution-margin percent	age: age entage itage entage	27)
Answer: A Explanation:	A) B) C) D)				

24) _____

 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 per patient necessary to breakeven is: 					28)	
	A) \$250	-	B) \$20,000	C) \$1,000	D) \$4,000	
	Answer: D Explanation:	A) B) C) D) \$40 milli	on / (175);			
		\$160 mil	lion / 40,000 = \$4,000	0		
29)	 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	-tax net inco	ome is \$67,500 with a	a 40% tax rate, contribut	tion margin per unit is \$2.00,	30)
	A) 241,250 u	costs are \$37 nits	0,000, then the numb B) 218,750 units	c) 167,250 units	D) 160,833 units	
	Answer: A		, , , , , , , , , , , , , , , , , , , ,	-, -,	,	
	Explanation:	A) [\$370,000 B) C) D)	0 + (\$67,500 / 0.6)] / \$	\$2 = 241,250 units		
31)	Suppose the In 300-room mote rented. It opera A) 25%	& Out Mote el, average da tes 365 days	l has annual fixed co aily room rents of \$5 per year. The percer B) 27.4%	osts applicable to its room 0, and average variable nt of occupancy for the C) 100%	ms of \$1.2 million for its costs of \$10 for each room year needed to breakeven is: D) 3.65%	31)
	Answer: B Explanation:	A) B) \$1,200,00 30,000 / (C) D)	00 / (\$50 - \$10) = 30, (300 x 365) = 27.4 pe	000 rooms; rcent		
32)	Given a break- number of unit A) 1,885 unit	even point o s that must b s	f 88,000 units and a be sold to reach a net B) 89,885 units	contribution margin per pre-tax profit of \$18,09 C) 88,000 units	r unit of \$9.60, the total 96 is: D) indeterminable	32)
	Answer: B Explanation:	A) B) 88,000 + C) D)	(\$18,096 / \$9.60) = 8	9,885 units		

33) Output measures of both resources and activities anA) stages of productionC) fixed activities			are: B) variable activitie D) cost drivers	e: B) variable activities D) cost drivers		
Answer: D Explanation:	A) B) C) D)					
34) If the sales prid the break-ever A) \$600.000	ce per unit is n volume in c	\$100, the unit variable Iollar sales rounded to B) \$150.000	cost is \$75, and total fixe the nearest whole dollar C) \$1,500	ed costs are \$150,000, then r is: D) \$200,000	34)	_
Answer: A Explanation:	A) \$150,000 6,000 un B) C) D)	0 / (\$100 - \$75) = 6,000 its x \$100 = \$600,000	units	2) \$200,000		
35) Ankeny Comp the contributio be sold to earn A) 17,000 ur	any wishes to n margin per the targeted hits	o earn after-tax net ind unit is \$6.00. Ankeny net income is: B) 14,000 units	come of \$18,000. Total fix 's tax rate is 40%. The nu C) 19,000 units	ked costs are \$84,000, and Imber of units that must D) 21,500 units	35)	_
Answer: C Explanation:	A) B) C) [\$84,000 D)	+ (\$18,000 / .60)] / \$6.0	00 = 19,000 units			
36) Assume the fo	llowing cost	information for Donal	d Company:		36)	_
Selling pri Variable co Total fixec Tax rate	ce per unit osts per unit I costs	\$144 \$95 \$80,000 40%				
The break-eve A) 556 units Answer: B	n point in un	its is B) 1,633 units	C) 500 units	D) 1,000 units		
Explanation:	A) B) \$80,000 / C) D)	/ (\$144 - \$95) = 1,633 u	inits			

 37) Number of en A) The proc B) The research driver. C) The mark D) The desire Answer: D 	gineering hou luction functi arch and deve keting function gn function h	urs is a likely cost dr on has number of e elopment function h on has number of en as number of engine	iver for which value ch ngineering hours as a li las number of engineeri gineering hours as a lik eering hours as a likely	ain function? kely cost driver. ng hours as a likely cost ely cost driver. cost driver.	37)
Explanation:	A) B) C) D)				
 38) An accountant A) the decis B) costs ma C) costs ma D) All of the 	may have di ion situation y be affected y behave in a ese answers a	fficulty classifying of may cause the costs by more than one co nonlinear way re correct.	costs as fixed or variable to be fixed in the short ost driver	e because: term	38)
Explanation:	A) B) C) D)				
39) Four Alarm C	ompany, a pr	oducer of salsa, has	the following information	ion:	39)
Income tax Selling pri Variable co Total fixed	k rate ce per unit ost per unit I costs	30% \$5.00 \$3.00 \$90,000.00			
The contributi A) 30%	on-margin ra	tio is: B) 100%	C) 60%	D) 40%	
Answer: D Explanation:	A) B) C) D) \$5.00 - \$ \$2.00 / \$	53.00 = \$2.00; 5.00 = 40%			
40) Which of the f A) There is leverage B) Fixed cos C) Large ch D) All of the	ollowing state a higher poss d firm. sts are high ar anges in sales ese answers a	ements about highly ibility of net income nd variable costs are s volume result in la re correct.	y leveraged companies i e or net loss and therefor e low. Irger changes in net inco	is true? re more risk than a highly ome.	40)
Answer: D Explanation:	A) B) C) D)				

 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: A) \$150,000 A) \$150,000 					41)	
	A) \$150,000		B) \$190,000	C) \$340,000	D) \$530,000	
	Answer: A					
	Explanation:	A) X / (\$34 X = 10.0	- \$19) = 10,000 00 x \$15 = \$150,000			
		B)				
		C)				
		D)				
12)	Suppose a Holi	iday Inn hote	has appual fixed co	oste applicable to ite roome	s of \$1.2 million for its	42)
42)	300-room hote	l average da	aily room rents of \$50) and average variable cos	sts of \$10 for each room	42)
	rented. It opera	ates 365 days	per year. The amour	nt of net income on rooms	that will be generated if	
	the hotel is con	npletely full t	throughout the entire	e year is:		
	A) \$5,475,00	0	B) \$4,275,000	C) \$3,180,000	D) \$(1,188,000)	
	Answer: C					
	Explanation:	A)				
		B)				
		C) [300 x 36	65 x (\$50 - \$10)] - \$1,	200,000 = \$3,180,000		
		D)				
43)	The horizontal	avis on the c	ost-volume-profit a	rank is that		40)
,				raph is the:		43)
,	A) net incom	axis on the c	ost volume prontig	B) sales volume in	units	43)
,	A) net incomC) dollars of	ne f cost	ost volume prontg	B) sales volume in D) dollars of revent	units ue	43)
,	A) net incom C) dollars of Answer: B	re F cost	ost volume prontig	B) sales volume in D) dollars of revenu	units ue	43)
,	A) net incomC) dollars ofAnswer: BExplanation:	A)	ost volume prontig	B) sales volume in D) dollars of revent	units ue	43)
,	A) net incomC) dollars ofAnswer: BExplanation:	A) B)	ost volume prontig	B) sales volume in D) dollars of revent	units ue	43)
,	 A) net incom C) dollars of Answer: B Explanation: 	A) B) C)	ost volume prontig	B) sales volume in D) dollars of revent	units ue	43)
,	A) net incom C) dollars of Answer: B Explanation:	A) B) C) D)	ost volume prontig	B) sales volume in D) dollars of revent	units ue	43)
44)	 A) net incom C) dollars of Answer: B Explanation: 	A) B) C) D) Direction (C) A) C) D)	es dolls. Each doll sel	B) sales volume in D) dollars of revent Is for \$20.00. Variable cost	units ue s per unit total \$14.00, of	43)
44)	A) net incom C) dollars of Answer: B Explanation: Hug Me Comp which \$6.25 is	A) A) B) C) D) pany produce for direct ma	es dolls. Each doll sel iterials and \$5.25 is fo	B) sales volume in D) dollars of revent Is for \$20.00. Variable cost or direct labor. If the break	units ue s per unit total \$14.00, of s-even volume in dollars	43)
44)	A) net incom C) dollars of Answer: B Explanation: Hug Me Comp which \$6.25 is is \$1,446,000, th	A) A) B) C) D) any produce for direct manen the total f	es dolls. Each doll sel iterials and \$5.25 is fo fixed costs for the pe	B) sales volume in D) dollars of revent Is for \$20.00. Variable cost or direct labor. If the break riod must be:	units ue s per unit total \$14.00, of s-even volume in dollars	43)
44)	A) net incom C) dollars of Answer: B Explanation: Hug Me Comp which \$6.25 is is \$1,446,000, th A) \$1,446,00	A) A) B) C) D) bany produce for direct manen the total to 0	es dolls. Each doll sel iterials and \$5.25 is fo fixed costs for the pe B) \$433,800	B) sales volume in D) dollars of revent Is for \$20.00. Variable cost or direct labor. If the break riod must be: C) \$361,500	units ue s per unit total \$14.00, of c-even volume in dollars D) \$516,425	43)
44)	A) net incom C) dollars of Answer: B Explanation: Hug Me Comp which \$6.25 is is \$1,446,000, th A) \$1,446,00 Answer: B	A) B) C) D) any produce for direct manen the total for 0	es dolls. Each doll sel iterials and \$5.25 is fo fixed costs for the pe B) \$433,800	B) sales volume in D) dollars of revent Is for \$20.00. Variable cost or direct labor. If the break riod must be: C) \$361,500	units ue s per unit total \$14.00, of c-even volume in dollars D) \$516,425	43)
44)	A) net incom C) dollars of Answer: B Explanation: Hug Me Comp which \$6.25 is is \$1,446,000, th A) \$1,446,000 Answer: B Explanation:	A) B) C) D) bany produce for direct manen the total to A)	es dolls. Each doll sel iterials and \$5.25 is fo fixed costs for the pe B) \$433,800	B) sales volume in D) dollars of revent Is for \$20.00. Variable cost or direct labor. If the break riod must be: C) \$361,500	units ue s per unit total \$14.00, of -even volume in dollars D) \$516,425	43)
44)	A) net incom C) dollars of Answer: B Explanation: Hug Me Comp which \$6.25 is is \$1,446,000, th A) \$1,446,000 Answer: B Explanation:	A) B) C) D) any produce for direct ma nen the total to B) [X / (\$20	es dolls. Each doll sel iterials and \$5.25 is for fixed costs for the pe B) \$433,800	B) sales volume in D) dollars of revent D) dollars of revent s for \$20.00. Variable cost or direct labor. If the break riod must be: C) \$361,500	units ue s per unit total \$14.00, of c-even volume in dollars D) \$516,425	43)
44)	A) net incom C) dollars of Answer: B Explanation: Hug Me Comp which \$6.25 is is \$1,446,000, th A) \$1,446,000 Answer: B Explanation:	A) B) C) D) any produce for direct manen the total for A) B) [X / (\$20 \$20X = \$	es dolls. Each doll sel iterials and \$5.25 is fo fixed costs for the pe B) \$433,800 0 - \$14)] x \$20 = \$1,44 \$1,446,000 x (\$20 - \$1	B) sales volume in D) dollars of revent D) dollars of revent rof direct labor. If the break riod must be: C) \$361,500	units ue s per unit total \$14.00, of -even volume in dollars D) \$516,425	43)
44)	A) net incom C) dollars of Answer: B Explanation: Hug Me Comp which \$6.25 is is \$1,446,000, th A) \$1,446,000 Answer: B Explanation:	A) B) C) D) any produce for direct manen the total for A) B) [X / (\$20 \$20X = \$ X = \$433 C)	es dolls. Each doll sel Iterials and \$5.25 is for fixed costs for the pe B) \$433,800 0 - \$14)] x \$20 = \$1,44 \$1,446,000 x (\$20 - \$1 3,800	B) sales volume in D) dollars of revent D) dollars of revent Is for \$20.00. Variable cost or direct labor. If the break riod must be: C) \$361,500 4)	units ue s per unit total \$14.00, of c-even volume in dollars D) \$516,425	43)
44)	A) net incom C) dollars of Answer: B Explanation: Hug Me Comp which \$6.25 is is \$1,446,000, th A) \$1,446,00 Answer: B Explanation:	A) B) C) D) any produce for direct manen the total for A) B) [X / (\$20 \$20X = \$ X = \$433 C) D)	es dolls. Each doll sel iterials and \$5.25 is fo fixed costs for the pe B) \$433,800) - \$14)] x \$20 = \$1,44 \$1,446,000 x (\$20 - \$1 3,800	B) sales volume in D) dollars of revent D) dollars of revent s for \$20.00. Variable cost or direct labor. If the break riod must be: C) \$361,500 (6,000 4)	units ue s per unit total \$14.00, of a-even volume in dollars D) \$516,425	43)

45) Fixed costs: A) vary on a B) are fixed C) vary on a D) are fixed Answer: A Explanation:	a per-unit basis on a per-unit basis a per-unit basis on a per-unit t A) B) C) D)	, but are fixed in basis, and fixed , and vary in to basis, but vary in	n total in total tal n total		45)
46) Which value c A) The proc B) The distr C) The custo D) The mark	hain function w luction function ibution function omer service fu keting function	vould include ad n would include n would include nction would in would include	dvertising costs? advertising costs. e advertising costs. nclude advertising costs. advertising costs.		46)
Answer: D Explanation:	A) B) C) D)				
47) On Fire Comp	any, a producei	r of salsa, has th	e following information:		47)
Income tax Selling pri Variable co Total fixec	c rate ce per unit ost per unit l costs	30% \$5.00 \$3.00 \$90,000.00			
The contributi	on margin per u	unit is:			
A) \$3.00 Answer: C Explanation:	A) B) C) \$5.00 - \$3. D)	3) \$8.00 00 = \$2.00	C) \$2.00	D) \$5.00	
48) The following	information is	for Allen Corpo	ration:		48)
Total fixed Variable c Selling pri	l costs osts per unit ce per unit	\$313,500 \$101 \$163			
The contributi A) 64.3% Answer: C Explanation:	on-margin ratio E A) B) C) (\$163 - \$10	o is: 3) 55.6% 01) / \$163 = 38.0	C) 38.0% 14 percent	D) 35.7%	
	D)				

49)	 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: A) 7 500 units 					
	A) 7,500 unit	S	B) 14,000 units	C) 3,000 units	D) 5,000 units	
	Answer: D					
	Explanation:	A)				
		B)				
		C) [$e_0 \downarrow 000$. (¢10,000 / 40)] / ¢4	00 10 000 upito		
		D) [\$04,000 19 000 ur	+ (\$10,000 / .00)] / \$0. hits _ (\$84 000 / \$6 00	00 = 19,000 units,) = 5,000 units		
		17,000 ui	1113 - (\$04,0007 \$0.00) – 5,000 drifts		
50)	As the level of	activity decre	eases within the relev	ant range:		50)
,	A) fixed cost	s per unit de	creases	5		, <u> </u>
	B) total varia	able costs inc	rease			
	C) variable c	osts per unit	remain unchanged			
	D) total fixed	l costs increa	se			
	Answer: C					
	Explanation:	A)				
		B)				
		C)				
		D)				
E1)	Accume the fel	lowing cost i	nformation for Maria	Company		E1)
51)	Assume the for	lowing cost i		e Company.		51)
	Sellina pria	e per unit	\$144			
	Variable co	sts per unit	\$80			
	Total fixed	costs	\$80,000			
	Tax rate		40%			
	If fixed costs in	creased by 10)% and management	wanted to maintain the	original break-even	
	point, then the	selling price	per unit would have	to be increased to:	D) ¢150.40	
	A) \$155.20		B) \$208.00	C) \$150.40	D) \$158.40	
	Answer: C	•				
	Explanation:	A)				
			(¢1// ¢00) 1.250	units at original broak of	von noint:	
		(\$80,000	(3144 - 300) = 1,230 x 1 10) / X = 1 250	units at original break-e	ven point,	
		000,000	X = 1.10 / $X = 1.200$			
		X = \$88.0	000 / 1.250 = \$70.40			
		Price = \$	70.40 + \$80.00 = \$150	.40		
		D)				
52)	is how	v the activitie	es of an organization	affect its costs.		52)
	A) Volume-	related cost c	lrivers	B) Cost driver		
	C) Cost beha	IVIOF		D) None of these a	nswers is correct.	
	Answer: C					
	Explanation:	A)				
		B)				
		U)				
		יט				

53) Knothole Company sells desks at \$480 per desk. The costs associated with each desk are as follows:

53)

Direct materials \$195 **Direct labor** 126 Variable factory overhead 51 Total fixed costs for the period are \$456,840. The break-even volume in dollars is: A) \$1,573,560 B) \$2,030,400 D) None of these answers is correct. C) \$456,840 Answer: B Explanation: A) B) 480 - 195 - 126 - 51 = 108; \$456,840 / \$108 = 4,230 desks; $4,230 \times 480 = 2,030,400$ C) D) 54) Babbling Brook Hospital has overall variable costs of 75% of total revenues and fixed costs of \$40 54) million per year. There are 40,000 patient-days estimated for next year. The break-even point expressed in total revenue is: A) \$160 million B) \$10 million C) \$40 million D) None of these answers is correct. Answer: A Explanation: A) \$40 million / (1 - 0.75) = \$160 million B) C) D) 55) The level of sales at which revenues equal expenses and net income is zero is called the: 55) A) break-even point B) margin of safety C) marginal income point D) contribution margin Answer: A Explanation: A) B) C) D) 56) Assume the following cost information for Melissa Company: 56) Selling price per unit \$144 Variable costs per unit \$80 Total fixed costs \$80,000 Tax rate 40% _ of sales dollars is required to earn an after-tax net income of \$24,000. A) \$252,000 B) \$216,000 C) \$270,000 D) \$315,000 Answer: C Explanation: A) B) C) [\$80,000 + (\$24,000 / 0.6] / (\$144 - \$80) = 1,875 units $1,875 \times 144 = 270,000$ D)

57) Suppose a 300-room rented. It o A) 30,00 C) 24,00	Comfort Inn m motel, average operates 365 day 00 rooms 00 rooms	otel has annual fixed co daily room rents of \$50 rs per year. The break-	osts applicable to its room), and average variable co- even point in number of r B) 120,000 rooms D) None of these ar	57)	
Answer: A Explanatio	A on: A) \$1,200, B) C) D)	000 / (\$50 - \$10) = 30,0	00 rooms		
58) Suppose a 300-room rented. It o the motel	Best Western m motel, average operates 365 day is half full throu	otel has annual fixed o daily room rents of \$50 ys per year. The amoun ghout the entire year is	osts applicable to its roon), and average variable co t of net income on rooms 5:	ns of \$1.2 million for its sts of \$10 for each room that will be generated if	58)
A) \$(1,1 Answer: (Explanatio	92,500) C Dn: A) B) C) [.5 x 30 D)	B) \$1,590,000 0 x 365 x (\$50 - \$10)] -	C) \$990,000 \$1,200,000 = \$990,000	D) \$2,737,500	
59) The follow	ing informatior	is for Albion Corpora	tion:		59)
Total Variak Selling	fixed costs ble costs per uni g price per unit	\$313,500 t \$99 \$154			
If manage	ment has a targe	eted net income of \$46,	200 (ignore income taxes)	, then the number of	
A) 6,540) units	B) 5,700 units	C) 2,336 units	D) 2,036 units	
Answer: A Explanatio	A on: A) (\$313,5 B) C) D)	00 + \$46,200) / (\$154 -	\$99) = 6,540 units		
60) i A) Oper C) Brea	s the ratio of fix rating leverage k-even point	ed costs to variable cos	ts. B) Contribution ma D) The margin of sa	rgin Ifety	60)
Answer: A Explanatio	A pn: A) B) C) D)		-		

61) Like-U Company produces dolls. Each doll sells for \$20.00. Variable costs per unit total \$14.00, of 61) 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) \$1,450,000 B) \$1,023,529 C) \$435,000 D) \$621,429 Answer: A Explanation: A) \$435,000 / (\$20 - \$14) = 72,500 dolls; $72,500 \times 20 = 1,450,000$ B) C) D) 62) ____ 62) Andrew Company has the following information: Income tax rate 40% Selling price per unit \$7.50 Variable cost per unit \$2.50 Total fixed costs \$100,000 If the tax rate decreases to 30%, ______ fewer units can be sold to retain the same net income of \$42,000. A) 1,000 units D) 2,000 units B) 32,000 units C) 34,000 units Answer: D Explanation: A) B) C) D) [\$100,000 + (\$42,000 / 0.6)] / (\$7.50 - \$2.50) = 34,000 units @ 40% tax rate; [\$100,000 + (\$42,000 / 0.7)] / (\$7.50 - \$2.50) = 32,000 units @ 30% tax rate; 2,000 units is the difference. 63) If total fixed costs are \$350,000, contribution margin per unit is \$7.50, the tax rate is 30%, and the 63) number of units to be sold is 100,000, then the after-tax net income will be: A) \$400,000 B) \$280,000 C) \$350,000 D) \$877,500 Answer: B Explanation: A) B) [\$350,000 + (X / 0.7) / \$7.50 = 100,000350,000 + (X / 0.7) = 750,000X / 0.7 = \$400,000X = \$280,000C) D)

64) Assuming a constant mix of 3 units of Alpha for every 1 unit of Beta, a selling price of \$21.60 for Alpha and \$28.80 for Beta, variable costs per unit of \$14.40 for Alpha and \$16.80 for Beta, and total fixed costs of \$53,760, the break-even point in units would be:

A) 4,800 units of Alpha and 1,600 units of Beta

- B) 40,320 units of Alpha and 13,440 units of Beta
- C) 1,600 units of Alpha and 4,800 units of Beta

D) 1,200 units of Alpha and 400 units of Beta

A)

Answer: A Explanation:

	<u>Alpha</u>	<u>Beta</u>
Sales	\$21.60	\$28.80
Variable costs	<u>14.40</u>	<u>16.80</u>
Contribution margin	\$7.20	\$12.00
Sales mix	<u>x 3</u>	<u>x 1</u>
Contribution margin per mix	<u>\$21.60</u>	<u>\$12.00</u>

Total contribution margin per mix = \$21.60 + \$12.00 = \$33.60

Break-even point in composite units = \$53,760 / \$33.60 = 1,600

	Alpha:	1,600 x 3 = 4,800 units
	Beta:	1,600 x 1 = 1,600 units
B)		
C)		
D)		

65) Managers should focus their efforts on managing:

A) products and services

- B) activities required to make products or deliver services
- C) revenues

D) None of these answers is correct.

Answer: B

Explanation: A)

B)

C) D)

66) Days of Our Lives Hospital has total variable costs of 90% of total revenues and fixed costs of \$50 million per year. There are 50,000 patient-days estimated for next year. What is the break-even 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.

Answer: A

Explanation: A) \$50 million / (1 - 0.90) = \$500 million B)

- C)
 - D)

65)

66)

iver activity level in ts per unit decrease able costs decrease A) B) C)	ncreases within the i	relevant range: B) variable costs per uni D) total fixed costs increa	t decrease ase	67) _	
D)					
bience Company se	IIs desks at \$480 per	desk. The costs associated	d with each desk are	68)	
erials or actory overhead	\$195 126 51				
ts for the period ar	e \$456,840. The cont	ribution-margin ratio is:	ר) 29 ח%		
A) B) C) \$480 - \$195 - \$108 / \$480 = 2 D)	\$126 - \$51 = \$108; 22.5%				
hain function woul keting function wou luction function wo ibution function wo omer service function	d include depreciati uld include deprecia ould include depreci ould include deprecion on would include deprecion	on of plant and machinery ation of plant and machine ation of plant and machin iation of plant and machir epreciation of plant and m	y? ery. ery. hery. hachinery.	69) _	
A) B) C) D)			-		
unit per unit and vary i in total as the cost- in total A) B) C) D)	n total driver activity leve	l increases		70)	
	A) B) C) D) bience Company set terials or actory overhead sts for the period ar B) 40 A) B) C) \$480 - \$195 - \$ \$108 / \$480 = 2 D) hain function woul keting function woul keting function woul keting function woul keting function woul c) \$480 - \$195 - \$ \$108 / \$480 = 2 D) hain function woul keting function woul keting function woul c) bution function woul c) and function woul keting function woul hain function function function hain function function hain function function hain function function hain function function function hain function function function hain function function function hain functio	<pre>iver activity level increases within the i is per unit decrease iable costs decrease A) B) C) D) bience Company sells desks at \$480 per terials \$195 or 126 actory overhead 51 sts for the period are \$456,840. The cont B) 40.6% A) B) C) \$480 - \$195 - \$126 - \$51 = \$108; \$108 / \$480 = 22.5% D) hain function would include depreciati keting function would include depreciati unit in function would include depreciati bution function would include depreciati bution function would include depreciati ibution function would include depreciati ibution function would include depreciati action function would include depreciati bution function would include depreciation c) D) </pre>	<pre>iver activity level increases within the relevant range: ts per unit decrease B) variable costs per unit lable costs decrease D) total fixed costs increat A) B) C) D) blence Company sells desks at \$480 per desk. The costs associated terials \$195 or 126 actory overhead 51 sts for the period are \$456,840. The contribution-margin ratio is: B) 40.6% C) 22.5% A) B) C) \$480 - \$195 - \$126 - \$51 = \$108; \$108 / \$480 = 22.5% D) hain function would include depreciation of plant and machiner keting function would include depreciation of plant and machiner ibution function would include depreciation of plant and machiner keting function would include depreciation of plant and machiner ibution function would include depreciation of plant and machiner ibution function would include depreciation of plant and machiner ibution function would include depreciation of plant and machiner in total as the cost-driver activity level increases in total A) B) C) D)</pre>	A) B) C) D) blence Company sells desks at \$480 per desk. The costs associated with each desk are terials S10 terials S10 B) C) D) blence Company sells desks at \$480 per desk. The costs associated with each desk are terials S108 S	<pre>iver activity level increases within the relevant range: 67</pre>

71) Desks R' Us Corporation sells desks at \$480 per desk. The costs associated with each desk are as follows:

71)

Direct mate Direct labor Variable fac	rials - story overhead	\$195 126 51			
Total fixed cost A) 952 desks	s for the period are B) 4,2	e \$456,840. The brea 230 desks	ak-even point in desks is: C) 5,458 desks	D) 1,228 desks	
Answer: B Explanation:	A) B) \$480 - \$195 - \$ \$456,840 / \$108 C) D)	\$126 - \$51 = \$108; 8 = 4,230 desks			
72) Which value ch A) The custo B) The distri C) The produ D) The mark	ain function would mer service functio bution function wo uction function wou eting function wou	d include depreciat on would include d ould include deprec uld include deprec Ild include deprecia	ion on transportation cost epreciation on transportat ciation on transportation c iation on transportation co ation on transportation cos	? ion cost. ost. ost. st.	72)
Explanation:	A) B) C) D)				
73) The margin of s A) shows how B) is the sale C) is the sam D) equals pla	afety: w actual sales diffe s price minus all th e as contribution r inned unit sales les	er from planned sal ne fixed expenses nargin ss break-even unit	es sales		73)
Explanation:	A) B) C) D)				- 0
74) Up In Smoke C Income tax Selling pric Variable co Total fixed	ompany, a produc rate e per unit st per unit costs \$9	er of salsa, has the 1 30% \$5.00 \$3.00 0,000.00	rollowing information:		/4)
A) 27,000 un Answer: B Explanation:	be sold to obtain a (ts B) 60 A) B) (\$90,000 + \$30, C) D)	targeted income be 1,000 units 000) / (\$5.00 - \$3.00	efore taxes of \$30,000. C) 45,000 units D) = 60,000 units	D) 10,000 units	

75) Relevant range A) the varia C) cost drive	e applies to: ble costs er activity levels	B) both fixed and variable costsD) fixed costs	75)
Explanation:	A) B) C) D)		
76) As the cost dri A) variable o C) total vari Answer: C	ver activity level decreases withi costs per unit decreases able costs decrease	in the relevant range: B) total fixed costs increase D) fixed costs per unit decreases	76)
Explanation.	A) B) C) D)		
77) is no A) Revenue B) Efficiency C) Sales mix D) Expenses	t an underlying assumption of th s and expenses are nonlinear over y and productivity will be uncha s will be constant s are categorized into variable an	ne cost-volume-profit graph. er the relevant range anged nd fixed costs	77)
Answer: A Explanation:	A) B) C) D)		
78) Oak N' More C follows:	Corporation sells desks at \$480 pe	er desk. The costs associated with each desk are as	78)
Direct ma Direct labo Variable fa	rerials \$195 or 126 actory overhead 51		
Total fixed cos A) \$108	ts for the period are \$456,840. Th B) \$195	ne contribution margin per desk is: C) \$51 D) \$126	
Answer: A Explanation:	A) \$480 - \$195 - \$126 - \$51 = \$ B) C)	\$108	

D)

79)	The i	s the change i	n total results under a r	new condition, in comparis	on with some given	79)
	or known conc	dition.				
	A) detrimen	ital effect		B) conditional effect		
	C) compara	bility effect		D) incremental effect		
	Answer: D					
	Explanation:	A)				
		B)				
		C)				
		D)				
80)	The following	information is	for Joshua Corporation	ו:		80)
	Total fixed	d costs	\$333,500			
	Variable c	osts per unit	\$99			
	Selling pri	ce per unit	\$154			
	If total fixed co	osts increased	to \$394,850, then break	-even volume in dollars w	ould increase by:	
	A) 34.3%		B) 12.3%	C) 18.4%	D) 10.0%	
	Answer: C					
	Explanation:	A)				
		B)				
		C) (\$394,850	- \$333,500) / \$333,500	= 18.40%		
		D)				
SHORT A	NSWER. Writ	te the word or	phrase that best comp	letes each statement or an	swers the question.	
81)	The relationsh	ip between an	organization's activitie	s and its costs	81)	
	Answer: Cost	beha∨ior			-	
	Explanation:					
>						
82)	Companies wi	th high contril	oution-margin percenta	ages	82) _	
	Answer: Airlin	nes, cigarette,	and cosmetic companie	es		
	Explanation:					
Q2)	The range of a	ctivity over w	hich the relationship be	twoon cost and activity is y	valid 82)	
03)				tween cost and activity is t		
	Answer: Relev	ant range				
84)	All variable co	sts divided by	sales.		84)	
,	Answer: Varia	able-cost ratio			· _	
	Explanation:					
	·					
85)	Cause the cons	sumption of co	ostly resources		85)	
	Answer: Cost	drivers				
	Explanation:					
86)	A firm's ratio	of fixed and va	ariable costs		86)	
00)		ating lovorage				
	Explanation	ating levelage	;			

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:		
89)	The study of the effects of output volume on sales, costs, and profit	89)	
	Answer: Cost-volume-profit analysis Explanation:		
90)	Another name for gross profit	90)	
	Answer: Gross margin Explanation:		
91)	Total contribution margin / total sales	91)	
	Answer: Contribution-margin percentage Explanation:		
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:		
94)	The assumed relationship between the cost and its cost driver	94)	
	Answer: Linear 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:		
98)	A cost that is not immediately affected by changes in the cost driver	98)	
	Answer: Fixed cost 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:	

111)	Shows how far sales can fall below the planned level of sales before losses occur	111)	
	Answer: Margin of safety Explanation:		
112)	Total fixed expenses / unit contribution margin	112)	
	Answer: Break-even volume in units Explanation:		
113)	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)	The planned or desired net income	114)	
	Answer: Target profit Explanation:		
115)	A good cost driver for maintenance wages	115)	
	Answer: Number of mechanic hours Explanation:		
116)	(fixed expenses + target net income) / unit contribution margin	116)	
	Answer: Target sales volume in units Explanation:		
TRUE/FA	LSE. Write 'T' if the statement is true and 'F' if the statement is false.		
117)	Sales volume of a given product helps guide executives who must decide to emphasize or deemphasize particular products.	117	/)
	Answer: True 🖉 False Explanation:		
118)	Break-even volume in dollars = variable costs / contribution-margin ratio.	118	3)
	Answer: True 📀 False Explanation:		
119)	The horizontal axis on the CVP graph is the dollars of cost and revenue.	119)
	Answer: True 🔮 False Explanation:		
120)	A good example of a cost driver for production labor wages is the number of machine hours.	120))
	Answer: True 🖉 False Explanation:		
121)	Margin of safety = actual unit sales - planned unit sales.	121)
	Answer: True 🔮 False Explanation:		

122)	Highly leveraged com	panies have low fixed costs and high variable costs.	122)
	Answer: True C Explanation:	False	
123)	A good example of a c supervised.	ost driver for production supervisor salaries is the number of people	123)
	Answer: TrueExplanation:	False	
124)	The relevant range is t costs and the cost driv	he limit of cost-driver activity within which a specific relationship between er is valid.	124)
	Answer: TrueExplanation:	False	
125)	Highly leveraged com Answer: True	panies are less risky than companies with low leverage. False	125)
	Explanation:		
126)	An industry that has a	high contribution-margin percentage is the airlines.	126)
	Answer: TrueExplanation:	False	
127)	Contribution margin =	sales price - all variable expenses.	127)
	Answer: TrueExplanation:	False	
128)	Only one cost driver m	nay affect a cost at any given time.	128)
	Answer: True C Explanation:	False	
129)	The break-even point line on a cost-volume	is located at the intersection of the total revenue line and the total expenses -profit graph.	129)
	Answer: TrueExplanation:	False	
130)	After a certain point, a	unit sold does not generate marginal income.	130)
	Answer: True C Explanation:	False	
131)	A major simplifying as either variable or fixed	ssumption of cost-volume-profit analysis is that costs can be classified as I with respect to a single measure of the volume of output activity.	131)
	Answer: TrueExplanation:	False	
132)	Cost of goods sold is th sells.	he cost of the merchandise that a company acquires or produces and then	132)
	Answer: Irue Explanation:	False	

 133) Target sales volume in units = (variable expenses + target net income) / unit contribution margin Answer: True False Explanation: 	. 133)
 134) Total contribution margin / total sales = 100% - variable cost percentage. Answer: True False Explanation: 	134)
135) The incremental approach means that a manager focuses on the effects of changes from the curre condition.	ent 135)
Answer: <a>True FalseExplanation:	
136) Gross margin is the same as contribution margin.	136)
Answer: True 🕑 False Explanation:	
137) Small increases in profits occur for high contribution-margin ratio companies when sales grow.	137)
Answer: True 🕑 False Explanation:	
138) Generally, companies that spend heavily for advertising are willing to do so because they have le contribution-margin percentages.	ow 138)
Answer: True • False Explanation:	
139) The income statement can be expressed as: Sales - Variable Expenses - Fixed Expenses = Net Income	139)
Answer: • True False Explanation:	
140) Cost drivers are output measures of both resources and activities.	140)
Answer: <a>True FalseExplanation:	
141) Only managers of profit-seeking organizations find that the cost-volume-profit analysis is useful	ıl. 141)
Answer: True 🕑 False Explanation:	
142) The break-even point is the level of sales at which revenue equals fixed costs.	142)
Answer: True 📀 False Explanation:	
143) A fixed cost changes in direct proportion to changes in a cost driver.	143)
Answer: True Sealse Explanation:	

144)	The benefits of increase costs.	ed accuracy of using a computer model in CVP analysis always exceed the	144)
	Answer: True Explanation:	False	
145)	The sales mix is the relatotal sales.	ative proportions or combinations of quantities of products that constitute	145)
	Answer: 🧟 True Explanation:	False	
146)	Gross margin focuses o	on sales in relation to variable cost.	146)
	Answer: True Explanation:	False	
147)	On a day-to-day basis services.	managers must manage the activities required to make products and	147)
	Answer: • True Explanation:	False	
148)	A change in the tax rate	e will not affect the break-even point.	148)
	Answer: 🛛 True Explanation:	False	
149)	In highly leveraged cor income.	mpanies, small changes in sales volume result in large changes in net	149)
	Answer: • True Explanation:	False	
150)	When analyzing costs, and (2) think of variabl	two rules of thumb are useful: (1) think of fixed costs on a per-unit basis; e costs as a total.	150)
	Answer: True 🛛 Explanation:	False	
151)	A small margin of safe	ty 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 shows	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. Answer: True False Explanation: 	155)
 156) A key factor in controlling costs is associating costs with activities. Answer: True False Explanation: 	156)
 157) With very short time spans, costs become more fixed and less variable. Answer: True False Explanation: 	157)
 158) Manufacturers of industrial equipment have high contribution-margin percentages. Answer: True False Explanation: 	158)
 159) Break-even volume in units = fixed costs / unit contribution margin. Answer: True False Explanation: 	159)
160) The CVP graph uses the assumption that costs are linear over the relevant range.Answer: TrueFalseExplanation:	160)
 161) An assumption of the CVP analysis is that the difference in inventory level at the beginning and the end of a period is insignificant. Answer: O True False Explanation: 	at 161)
162) Cost behavior pertains to how costs affect the activities of an organization.Answer: True FalseExplanation:	162)
 163) On the CVP graph, the horizontal difference between the sales line and the total expenses line measures the net income or net loss. Answer: True False Explanation: 	163)
 164) Gross margin = sales price - cost of goods sold. Answer: True False Explanation: 	164)
165) Gross profit margin is the sales price minus the variable cost per unit.Answer: True FalseExplanation:	165)
 166) Operating leverage is the ratio of fixed costs to variable costs. Answer: True False Explanation: 	166)

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

178) An increase in sales price would cause a decrease in the break-even point.	178)
Answer: 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.	180)
Answer: True 🖉 False	
Explanation:	
181) Sales mix concept is relevant for all companies, regardless of the number of units produced.	181)
Answer: True 🖉 False 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>X</u>	<u>Y</u>
Selling price per unit	\$46	\$36
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 x \$8) + (7,000 x \$12) \$234,000 = \$18,000
- c. 21,000:7,000 = 3:1
 (3 x \$8) + (1 x \$12) = \$36
 \$234,000 / \$36 = 6,500 units
 X: 6,500 x 3 = 19,500 units
 Y: 6,500 x 1 = 6,500 units
- d. (2 x \$8) + (3 x \$12) = \$52
 \$234,000 / \$52 = 4,500 units
 X: 4,500 x 2 = 9,000 x \$46 = \$414,000
 Y: 4,500 x 3 = 13,500 x \$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 rate	30%
Selling price per unit	\$6.60
Variable cost per unit	\$5.28
Total 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 x 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
- b. \$270,000 / \$450,000 = 60%
- c. \$216,000 / 60% = \$360,000
- d. \$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

Answer Key Testname: C2

1)	В		
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3)	С		
4)	Α		
5)	C		
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1)	C		
8)	А		
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11)	В		
12)	А		
13)	С		
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15)	c		
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26)	С		
27)	A		
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48)	C		
49)	D		
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Answer Key Testname: C2

- 51) C 52) C 53) B 54) A 55) A 56) C 57) A 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

Answer Key

Testname: C2

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
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- 143) FALSE
- 144) FALSE
- 145) TRUE
- 146) FALSE
- 147) TRUE
- 148) TRUE
- 149) TRUE
- 150) FALSE

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39

Answer Key Testname: C2

- 184) a. $\frac{46,200}{(56.60 55.28)} = 35,000$ units
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