TRUE/FA	LSE. Write	'T' if the st	atement is true and 'F' if the statement is false.
1)	Controlling	means ove	rseeing the company's day-to-day operations.
	Answer:	True	False
2)	Managerial	accounting	gathers, summarizes, and reports the cost and revenue data relevant to decisions.
	Answer: 💿	True	False
3)	Managerial investment	-	focuses on providing shareholders and creditors with the information they need to make g decisions.
	Answer:	True 🤇	False
4)		•	ocuses on providing internal management with the information it needs to run an and effectively.
	Answer:	True •	False
5)	Evaluating budgeting.	the results	of business operations against a plan and then making adjustments to that plan is called
	Answer:	True C	False
6)	The four pr	imary resp	onsibilities of managers are planning, directing, controlling, and decision making.
	Answer: 0	True	False
7)	Managerial	accounting	develops reports that help internal parties effectively and efficiently run the company.
	Answer: 💿	True	False
8)	Directing m	eans settin	g goals and objectives for the company and determining how to achieve them.
	Answer:	True	False
9)	Budgets are	the quanti	tative expression of management's plans.
	Answer: 💿	True	False
10)	Making adji controlling.	ustments to	keep the company moving forward is related to the management responsibility of
	Answer: •	True	False
MULTIPL	LE CHOICE.	Choose th	ne one alternative that best completes the statement or answers the question.
11)	A) Overs B) Gettin C) Evalua	eeing the congressing feedback ating the re	ch of the following activities? ompany's day-to-day operations on results sults of operations objectives for the company
12)		agement co on-makino	mpares the budget to actual results, which of the following is being fulfilled? B) Directing C) Controlling D) Planning
	Answer: C		

13) Which of the following manage take corrective action on the b	•	ing fulfilled when manageme	ent uses feedback to
 A) Controlling and decision 	n-making	B) Directing and planning	
C) Planning and controlling	9	D) Planning and decision-r	making
Answer: A			
14) Which one of the following m	anager responsibilities encom B) Planning	-	D) Foodback
A) Controlling Answer: C	b) Plailling	C) Decision-making	D) Feedback
15) Using product cost information	n to determine sales prices is	an example of	
A) controlling, planning, ar	<u> </u>	B) directing, planning, and	_
C) controlling, directing, an Answer: B	id planning.	D) directing, controlling, an	nd planning.
16) Using hourly sales reports to omanagement's four primary re	_	needed to service customers	fulfills which of
A) Directing, planning, and C) Analyzing, directing, an	decision-making	B) Controlling, planning, a D) Directing, controlling, ar	
Answer: A	. 3	, 3	, ,
17) Budgets are the way that man A) plans.	agers can express their B) control.	C) decision-making.	D) hiring practices.
Answer: A	b) control.	c) decision-making.	D) filling practices.
18) Comparing actual results to be A) controlling.	udgets is an example of the m B) decision-making.	nanagement function of C) directing.	D) planning.
Answer: A			
19) Overseeing the day-to-day op A) controlling.	perations of a company is an e B) decision-making.	example of the management f C) directing.	function of D) planning.
Answer: C	, 3	, 3	,1 3
20) Preparing budgets is an exam	ple of the management functi	on of	
A) controlling.	B) decision-making.	C) directing.	D) planning.
Answer: D			
21) Evaluating results against the		_	
A) controlling.	B) decision-making.	C) directing.	D) planning.
Answer: A			
B) helps managers make de C) is the same as cost accou	inting.	r verification.	
D) is useful for external and Answer: B	a internar users.		

- 23) The budgetary control function may include evaluating the difference
 - A) between the historical cost and the current cost.
 - B) between budgeted amounts and actual results.
 - C) between current operating costs and last year's operating costs.
 - D) between the original budget and the final adjusted budget.

Answer: B

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

24) What are the four primary responsibilities of managers as described in Chapter 1? Give an example of each type of responsibility.

Answer: The following are managers' four primary responsibilities:

- a. Planning: An example of planning is when the manager of a local McDonald's restaurant makes the sc of employee work hours for the upcoming week.
- b. Directing: An example of directing is when the manager of the local McDonald's adjusts the menu to r local tastes and preferences.
- c. Controlling: An example of controlling is when the manager of the local McDonald's compares the act number of hamburger patties used over the past week to the budgeted number of hamburger patties.
- d. Decision-making: The owners of the local McDonald's franchise analyze the potential of the current ke and decide to open a second location five miles away in a popular shopping plaza.

Note that student examples of each type of responsibility may vary.

MATCHING. Choose the item in column 2 that best matches each item in column 1.

Match the following:

25) Setting goals and objectives.

Answer: D

26) The process in which management engages while it plans directs and

controls operations.

Answer: A

Answer: A

27) Evaluating results of business

operations.

Answer: C

28) Determining how to achieve company

goals.

Answer: D

29) Overseeing the company's day to day

operations.

Answer: B

A) Decision making

B) Directing

C) Controlling

D) Planning

Match the following:

30) Setting a 20% increase in sales as goal for the next fiscal period.

Answer: D

31) Streamline company procedures to reduce the time required per unit of product produced.

Answer: A

32) Selecting the best corporate website design from a number of proposals.

Answer: B

33) Monitor both voluntary and involuntary employee turnover.

Answer: C

34) Making a determination about the appropriate level of advertising expenditures.

Answer: B

35) Increasing marketing efforts.

Answer: A

36) Implement an employee training program to improve moral.

Answer: A

37) Setting a target level of employee turnover.

Answer: D

38) Determine that R & D costs should be increased by 10% in the upcoming fiscal quarter.

Answer: D

39) Set prices at a competitive level.

Answer: A

40) Improve the design of the corporate website.

Answer: A

41) Monitor web traffic through the use of an online counting device.

Answer: C

- A) Directing
- B) Decision making
- C) Controlling
- D) Planning

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.
42) The design of a management accounting system should consider how reports affect employees' behaviour.
Answer: True False
43) International Financial Reporting Standards (IFRS) must be followed when managerial accounting reports are prepared.
Answer: True Selse
44) Accounting Standards for Private Enterprise (ASPE) must be followed when managerial accounting reports are prepared.
Answer: True 👂 False
45) Management accounting requires independent audits of the firm's books.
Answer: True 👂 False
46) The primary purpose of managerial accounting information is to help external users make investing and lending decisions.
Answer: True 👂 False
47) The primary users of managerial accounting information are internal users such as managers.
Answer: True False
48) The primary managerial accounting product is the company's audited financial statements.
Answer: True 🕑 False
49) Managerial accounting information emphasizes relevance, more than reliability and objectivity.
Answer: True False
50) Managerial accounting information tends to report on segments of the business.
Answer: True False
51) Managerial accounting reports are always prepared on a quarterly and annual basis.
Answer: True • False
52) Managerial information is always based on historical transactions with external parties.
Answer: True • False
53) Employee behaviour is one of the factors that must be considered when designing the managerial accounting control system.
Answer: True False
MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.
54) Which of the following statements is TRUE about managerial accounting information?A) It is audited.
B) It must be prepared in conformity with generally accepted accounting principles (GAAP).C) It emphasizes relevance.

D) It is prepared annually and quarterly.

Answer: C

55)	Management accounting focuse A) tax preparation.	es on B) external reporting.	C) internal reporting.	D) auditing.
	Answer: C			
56)	The person MOST likely to use A) bank loan officer. C) product manager. Answer: A	ONLY financial accounting i	nformation would be the B) plant manager. D) vice president of plant o	perations.
57)	Which of the following persons reports?	s or groups would be LEAST	likely to receive detailed ma	nagerial accounting
	A) CEO C) Sales territory managers		B) Plant managers D) Current shareholders	
	Answer: D		_,	
58)	Which of the following types of A) Managerial accounting C) Audit accounting Answer: A	f accounting is designed to m	eet the needs of decision-ma B) Tax accounting D) Financial accounting	kers inside a company?
59)	The primary goal of manageria A) shareholders. C) creditors. Answer: B	Il accounting is to provide inf	formation to B) internal decision-makers D) both shareholders and cr	
60)	Which of following is TRUE? A) Management accounting B) Financial accounting focu C) Financial accounting uses D) Management accounting Answer: D	ises on future data. Is the cash basis for recording		
61)	operations. C) Financial accounting help	vides external reports. vides sufficient information fo		an and control
62)	C) Managerial accounting re		onal accountants.	
63)	Which of the following are the	internal decision-makers of a	a company?	
	A) Vendors	B) Shareholders	C) Customers	D) Managers

Answer: D

A) C)	publicly traded company Annual financial budgets Annual financial statemen ver: C		eports must be audited by an outside agency? B) Monthly financial statements D) Budgets		
A)	Customers	are most likely to use a comp B) Suppliers	any's budget information? C) Creditors	D) Managers	
Ansv	ver: D				
A)	ers of a company are its customers.	B) shareholders.	C) creditors.	D) managers.	
Ansv	ver: B				
A) C)	mation for external parties budget reports. financial accounting repo ver: C	s about past performance is p	rovided by B) planning reports. D) managerial accounting r	eports.	
A) B) C) D)	Managers can store old do The managers could combusers. Data can be entered at nu	fit from the use of a manager ocuments in hard copy. Dine or adjust data to answer merous input terminals with be completely responsible fo	the questions from particula in the organization.		
A) B) C) D)	lines or departments. must be audited by an inc must comply with IFRS/A	nformation on the various op dependant auditor.			
A) B) C)	reports include detailed in lines or departments.	SPE. department heads and other nformation on the various op includes activities such as pr	erating segments of the busi	·	

Answer: A

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

71) Discuss at least four differences between financial accounting and managerial accounting.

Answer:

Item	Managerial Accounting	Financial Accounting
		External Users (shareholders,
Primary Users	Internal Users	creditors and regulators)
	To help managers plan, direct,	To help external users make
Purpose of Information	control and make decisions	investing and lending decisions
	Any internal report deemed	
Primary Product	worthwhile by management	Financial Statements
What must be included/how it		Standards must be chosen, IFRS or
should be formatted	Determined by management	ASPE
Underlying basis	Focus on the future	Historical transactions
What information characteristic		
is emphasized	Relevance	Reliable and objective
Business unit	Segments of the business	The company as a whole
Frequency of reports	Determined by management	Annually and quarterly
		Publicly traded companies must b
Verification	No independent audits require	daudited by independent CPA
Required by outside agency	No	Yes - securities commissions
Concerns over the impact on	Management should consider	Primary concern is adequacy of
employees' behaviour	behavioural implications	disclosure

72) Is financial accounting or managerial accounting more useful to a plant (factory) manager? Explain your answer.

Answer: Managerial accounting is likely to be much more useful to a plant manager than financial accounting. Financial accounting typically gives financial information for the company as a whole; the plant manager would find very little information in the financial accounting reports which relate directly to the plant environment and the performance of the plant itself. Managerial accounting, on the other hand, could provide the plant manager with information relating to just the plant. Examples of some types of informat provided by managerial accounting are:

- a. comparison of budgeted costs versus actual costs.
- b. tracking of safety incidents.
- c. quality costs.
- d. product line profitability.
- e. profitability by shift.

(Student examples may vary.)

73) Describe management accounting and financial accounting.

Answer: Management accounting provides information to internal decision makers of the business such as top executives, managers, sales representatives, and production supervisors. Its purpose is to help managers predict and evaluate future results. Reports are generated often and usually broken down into smaller reporting divisions such as department or product line. There are no rules to be complied with since these reports are for internal use only. Management accounting embraces more extensively such topics as the development and implementation of strategies and policies, budgeting, special studies and forecasts, influ employee behaviour, and nonfinancial as well as financial information.

Financial accounting, by contrast, provides information to external decision makers such as investors and creditors. Its purpose is to present a fair picture of the financial condition of the company. Reports are generated quarterly or annually and report on the company as a whole. The financial statements must

TRUE/

	CC	omply with	IFRS/ASPE. A CPA audits, or verifies, that the IFRS/ASPE are being followed.
ΈA	LSE. Write	'T' if the st	atement is true and 'F' if the statement is false.
74)	The CFO of Answer:		is responsible for the day-to-day running of the company. False
75)	The treasur Answer: 0		controller report directly to the CFO. False
76)	The interna	•	artment reports directly to the subcommittee of the board of directors called the audit
	Answer: 0	True	False
77)	The interna	ıl audit depa	artment reports directly to the CFO.
	Answer:	True 🧧	False
	In most cor Answer: 🍳	•	anagerial accountants no longer perform routine mechanical accounting tasks. False
79)	Managerial	accountant	ts are now considered to be similar to advisors and business analysts.
	Answer: 0	True	False
80)		ritten comn can possess	nunications skills are considered among the most valuable skills a management
	Answer: 0	True	False
81)	Technology	y has been a	driving factor in the changing roles of management accountants.
	Answer: 0	True	False
	•		nts spend more time planning, analyzing and interpreting accounting data and less time unting transactions than they have in the past.
	Answer: 0	True	False
83)	•	kill required accounting	of managerial accountants is that they have a solid knowledge of both financial and
	A november	Truo	Falco

	84) Manageme		ntant	s only need a solid	d understanding o	of managerial accounting, and not financial
	Answer:	True	⊘ F	alse		
	85) Manageme Answer: ©			s need a solid und alse	lerstanding of bot	th managerial accounting, and financial accounting
	_		mark	_	s-functional team n, and customer s	ns because teams consist of employees from R&D, ervice.
MULT	IPLE CHOICE	E. Choose	e the	one alternative th	nat best complete:	s the statement or answers the question.
	A) The c	company's controller	s boa	he daily operatior rd of directors	ns of a company?	B) The CEO D) Stockholders
	A) The C			versight for large ors	corporations?	B) Stockholders D) The company president
	Answer: C	,				
	89) The vice-p A) The C C) The C	CEO	of op	erations directly r	eports to which p	person(s)? B) The Board of Directors D) The COO
	Answer: D)				
	A) Resea B) Finar C) Interi	arch and oncial, mar nal contro nnual au	devel nager ols		on, and distributi	e following aspect(s) of the company? on
	A) The C B) The t C) The i	CFO and i reasurer a nternal au	interr and c udit c	nal audit departmontroller	ent ne independent CF	Board of Directors? PA firm
	Answer: C	;				
	A) The i B) The t C) The i	nternal au reasurer a nternal au he indepe	udit o and c udit o		ne independent Cf	PA firm

9	3) Who is primarily responsible for A) The CFO	or raising capital and investir B) The CEO	ng funds? C) The COO	D) The Treasurer
	Answer: D			
9	4) What has been the key factor in A) Government licensingC) Stricter GAAP standardsAnswer: D	n changing the role of manag	erial accountants? B) Stricter audit standards D) Technology	
9	5) Which would be a subgroup of A) Financial committee C) Stockholders' committee Answer: D	f the Board of Directors?	B) Managerial committee D) Audit committee	
9	6) Which person is hired directly A) The COO	by the board of directors to re B) The Treasurer	un the company? C) The CFO	D) The CEO
	Answer: D			
9	7) Managerial accountants often vA) cross-functional teams.C) audit teams.Answer: A	work on teams called	B) work groups. D) multi-functional teams.	
9	8) A company's Board of DirectorA) periodically, and at leastC) monthly.Answer: A		B) annually. D) quarterly.	
9	9) The Toronto Stock Exchange (1 A) members experienced in B) two independent membe C) only stockholders as men D) membership that represe Answer: B	business. rs. nbers.	ers of a board of directors for	a listed company have
10	0) The person or position who is (directly responsible for all fin B) Treasurer.	ancial concerns is the C) COO.	D) CEO.
	Answer: A			
10	become key organization B) Technology has changed C) Management accountants	emphasis on analyzing busin	ess operations, management untants. recording transactions.	accountants have

11

Answer: B

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

102) Why is it important that all managerial accountants adhere to professional and ethical standards as codified by the profession?

Answer: At the root of all business relationships is trust. Without trust, business cannot function.

103) Describe the position of the CFO, the treasurer, and the controller within the organization. Describe the main functions of the treasurer and the controller.

Answer: The treasurer and controller both report to the CFO. The treasurer is responsible for the investing functions of the organization (i.e., obtaining financing, paying down debt, issuing stock, etc.). The controller is responsible for the financial accounting system and the managerial accounting system of the organization.

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

104) Identify the skills required of a management accountant

Answer: Knowledge of both financial and managerial accounting

Problem solving and decision making Ability to lead and work on a team

Professionalism Ethical standards

Oral and Written communication skills

105) What is the most important skill for a management accountant to possess? Why?

Answer: Student answers will vary. Examples can include:

Communication skills to explain the impact of management decisions on the financial results and to expla financial reports in a manner understood by the company's managers.

Ethical standards because business is built on trust.

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

106) Recognition of ethical issues that may arise in work to be performed is evidence of Adhering to Integrative Analysis in the CPA Guidelines for Ethical Behaviour.

Answer: True False

107) Anticipation of issues and identification of possible alternatives is evidence of Adhering to Integrative Analysis in the CPA Guidelines for Ethical Behaviour.

Answer: True False

108) Having the requisite knowledge to perform certain tasks is an example of Adherence to Rules of Professional Conduct in the CPA Guidelines for Ethical Behaviour.

Answer: True False

109) Having the requisite knowledge to perform certain tasks is an example of Enabling Competencies in the CPA Guidelines for Ethical Behaviour.

Answer: True False

11	•	•	st in an audit cl Ethical Behaviou		ole of Adherence	to Rules of Profes	ssional Conduct in the
	Answer: 🥝	True	False				
11			ants in Canada o provincial ac			l Professional Acco	ountants of Canada (CPA
	Answer:	True	False				
MULTI	PLE CHOICE	. Choose	the one alterna	tive that best c	ompletes the sta	tement or answer	s the question.
11.	A) The Ir	nstitute of Chartered I	ng organization Chartered Acco Professional Ac	ountants	B) The	nal accountants in Society of Manage Certified General	ement Accountants
11	A) follov B) call th C) consu	v their cor ne Society ılt an attor	npany's establis of Managemen ney.	hed policies for Accountants "	ants should FIRST r Reporting uneth Ethics Hotline." ediate supervisor	hical behaviour.	
	Answer: A						
11	4) Having the Ethical Beh	•	knowledge to p	erform certain	·	•	the CPA Guidelines for
	-	rence to R sing the S	ules of Professi ituation	onal Conduct		bling Competencion grative Analysis	es
	Aliswei. D						
11:	A) Adhe	rence to R sing the S	ules of Professi		B) Enal	n the CPA Guideli bling Competencion grative Analysis	ines for Ethical Behaviour es
	Allswei: A						
11	6) Planning aı Ethical Beh	-	ying possible co	nflicts of intere	est is an example	of in the	CPA Guidelines for
	A) Adhe		ules of Professi ituation	onal Conduct		bling Competencion grative Analysis	es
	Answer: C						
11	-	•	onstraints to de I Behaviour.	termine the bes	st way forward is	an example of	in the CPA
	C) Asses	sing the S	ules of Professi ituation	onal Conduct		bling Competencion grative Analysis	es
	Answer: D						
11	Guidelines	for Ethica	l Behaviour.	_	·	is evidence of	
	C) Asses	sing the S	ules of Professi ituation	onal Conduct		bling Competencion grative Analysis	es
	Answer: C						

119)	for Ethical Behaviour.	and identification of possible ait	ernatives is evidence of In the CPA Guidelines	
		lles of Professional Conduct	B) Enabling Competencies	
	C) Assessing the Sit	uation	D) Integrative Analysis	
	Answer: D			
120)	Compilation of allowe Behaviour.	d and disallowed behaviours is	evidence of in the CPA Guidelines for Ethical	
	A) Adherence to Ru	les of Professional Conduct	B) Enabling Competencies	
	ŕ	e and Communicate	D) Integrative Analysis	
	Answer: A			
121)	A clear and transparer Ethical Behaviour.	nt decision based on the ethical a	nalysis is evidence of in the CPA Guidelines for	
	•	lles of Professional Conduct	B) Conclude, Advise and Communicate	
	C) Assessing the Sit	uation	D) Integrative Analysis	
	Answer: B			
ESSAY. V	Vrite your answer in th	ne space provided or on a separa	ate sheet of paper.	
122)	What process should a	n management accountant follow	to resolve an ethical dilemma?	
	Consider dis next manage Discuss the s	•	ager, or if the issue is with her manager, with the supervis CEO - notify the audit committee or board of directors. or.	or i
TRUE/FA	LSE. Write 'T' if the st	atement is true and 'F' if the sta	tement is false.	
123)	The Sarbanes-Oxley A reporting functions.	act was designed to hold corpora	ations accountable for internal control and financial	
	Answer: Variable True	False		
-	The Sarbanes-Oxley A corporations.	act has significantly impacted the	e responsibility for financial reporting by publicly traded	
	Answer: True	False		
125)	_	act does not allow public account d they are providing audit servic	ting firms to provide certain non-audit services to clients ces.	
	Answer: True	False		
126)	Trends in the modern marketplace.	business environment include a	shift to a service economy and the rise of the global	
	Answer: <a> True	False		
127)	The decision to bill cuswhen performing cost	=	ves the company money, would be a positive benefit	
	Answer: Variable True	False		

		ISO 9001:2008 is a certification program for companies that adhere to an international set of quality management standards and guidelines.						
		Answer: 0	True	False				
	129)	According	to SOX, at	least one	member of the aud	dit committ	ee should be a financial e	expert.
		Answer: 0	True	False				
	130)	IFRS stands	s for "impo	ortant fina	ancial reporting sta	ndards."		
		Answer:	True	False				
	131)	XBRL will b	oe require	d of both	public and private	companies		
		Answer:	True	False				
	132)	Managerial	accountin	ng has its	roots in the industr	ial age of n	nanufacturing.	
		Answer: 0	True	False				
	133)			•	ribed as the ability meet their own ne		e needs of the present wi	thout compromising the
		Answer: 0	True	False				
	134)				_	•	responsibility not only "o ompany's products and se	do the right thing," but also ervices.
		Answer: 0	True	False				
		5) The advantages of XBRL include decreases in the need for manual searches through corporate reports for specific pieces of information as well as facilitating the comparison of companies results to industry average and to each other.					•	
		Answer: 0	True	False				
		The "triple l			•	porations r	esults in terms of enviror	nmental sustainability,
		Answer: 0	True	False				
MUL	TIPL	E CHOICE	. Choose	the one a	Iternative that bes	t completes	s the statement or answe	rs the question.
		SOX require A) CFO. Answer: C	es that the	company	y's financial statem B) CEO.	ents be cert	ified by the company's C) CFO and CEO.	D) Controller.
	·	B) Impor C) Intern	national an rtant Forei national an national Fi	gn Regist d Foreigr	n Reporting System ering Systems. n Registering Stand eporting Standards	ards.		
	139)		sive Busin	•	tering Location. orting Location.		B) eXtensible Business F D) eXisting Business Res	
		Answer: B						

A) new set of account B) new set of ethical C) new set of auditing D) tagging system v	l standards.	ıms to extract information fi	rom financial reports.
Answer: D			
creating documents to	obstruct any federal investiga	ation?	nt for knowingly destroying or
A) 20 years Answer: A	B) 15 years	C) 10 years	D) 5 years
142) Which reflects a philos A) TQM	sophy of providing customers B) IFRS	with superior products and C) ERP	d services? D) XBRL
Answer: A			
143) What is the abbreviation A) TQM C) ERP Answer: C	on of the name given to softwa	are systems that can integra B) Total Integrated D) JIT	•
144) What does ERP stand (A) Enterprise Resou C) Extensible Repor	rce Partition	B) Expandable Re D) Enterprise Reso	
145) E-commerce refers to	the		
B) quick delivery of	perior goods and services. goods and services. rmation with customers and sees on the internet.	uppliers.	
Answer: D			
146) Exchanging information A) ERP.	on to reduce costs, speed deliv	very, and improve quality is B) JIT.	best described as
C) Supply-chain ma	anagement.	D) TQM.	
	onsidering installing an ERP s	system. To make a good ded	cision, Wonder needs to conduct
A) JIT survey.		B) ISO 9001:2000 s	survey.
C) cost-benefit anal	ysis.	D) TQM survey.	
Answer: C			
long run?			lity to survive and thrive in the
A) Profit, people, pl		B) Planet, profit, p	
C) Profit, people, pl Answer: A	aut	D) People, places,	umys
7 11 10 10 11 7 1			

149)	In recent years, there has been an increasing awar responsibility by both consumers and corporation		and social
	A) the bottom line	B) just-in-time	
	C) sustainability	D) total quality managem	ent
	Answer: C		
150)	How is sustainability defined?		
	A) Reducing green-house gas emissions		
	B) Achieving a reasonable rate of return for the		
	 C) Meeting the needs of the present without co needs 	mpromising the ability of future gene	erations to meet their own
	D) Maximizing the rate of return for the curren	t shareholders	
	Answer: C		
151)	What is considered to be the latest competitive we	eapon in business?	
	A) Time B) Money	C) Human Resources	D) Market Share
	Answer: A		
ESSAY.	Write your answer in the space provided or on a s	separate sheet of paper.	
152)	What does an "Integrated Report" contain?		
	Answer: Descriptions and measures of all materi capital.	al elements of value creation - not jus	st those related to financial
153)	Besides financial capital, what other elements of v	value creation are included in an "Inte	egrated Report"?
	Answer: Manufactured, intellectual, human, soci	al, and natural capital.	
154)	What are the advantages to implementing ERP sy	stems?	
	Answer: Companies streamline their operations a	and save monev.	
	Companies can respond more quickly to	3	
	An ERP system can replace hundreds of	8	out the company.

155) What is the major issue involved in implementing ERP systems?

Answer: ERP systems are expensive and require a large commitment of time and people.

MATCHING. Choose the item in column 2 that best matches each item in column 1.

Match the following:

156) Exchange of information with suppliers to reduce costs, improve quality, and speed delivery of goods and services from suppliers to the company itself and on to customers.

Answer: E

157) A philosophy and business strategy of manufacturing without waste.

Answer: H

158) Software systems that can integrate all of a company's worldwide functions, departments, and data into a single system.

Answer: D

159) A data tagging system that enables companies to release financial and business information in a format that can be accessed over the internet.

Answer: G

160) An organization which supports and issues quality-related certifications.

Answer: C

161) A US law that enhances internal control and financial Reporting requirements and establishes new regulatory requirements for publicly traded companies and their independent auditors.

Answer: A

162) Set of standards which must be adopted for all publicly traded companies and may differ from ASPE/IFRS.

Answer: B

163) A system where production is triggered by orders (demand).

Answer: F

- A) SOX
- B) IFRS
- C) ISO
- D) ERP
- E) Supply-Chain Management
- F) JIT
- G) XBRL
- H) Lean production

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.
164) Lean production systems keep large inventories.
Answer: True 👂 False
165) Lean production cuts the throughput time of a manufacturing concern.
Answer: • True False
Autowor. — Trace Traise
166) Lean production may be regarded as a general philosophy of manufacturing without waste, rather than a
particular type of manufacturing process.
Answer: True False
167) Lean production systems typically carry large inventories.
Answer: True 👂 False
168) Lean production systems typically arrange production activities in self-contained cells.
Answer: True False
Autowor. — Trace Traise
169) Lean production systems typically strive for shorter setup times.
Answer: • True False
170) Lean production systems typically have employees cross-trained to perform more than one activity.
Answer: True False
171) Lean production systems typically produce large batches.
Answer: True 🕑 False
172) Lean production systems typically focus on lengthening the manufacturing cycle time.
Answer: True ♥ False
172) Lean production exetens typically feaus on strangthening symply, shain management
173) Lean production systems typically focus on strengthening supply-chain management. Answer: True False
Allswei. • Hue False
174) Lean production systems typically emphasize quality.
Answer: True False
175) Implementing Total Quality Management (TQM) is part of the ISO 9001:9008 quality standard.
Answer: True Palse
176) Shortened manufacturing cycle times is a feature of Total Quality Management.
Answer: True 🕑 False
MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.
177) Which of the following pertains to a lean production system?
A) It will require longer set-up times than a traditional system. P) It will require higher inventory levels than a traditional production system.
B) It will require higher inventory levels than a traditional production system.C) It will produce goods in smaller batches than a traditional production system.
D) It will have like machines grouped together.
Answer: C

178) \	 Which of the following is TRU A) Raw materials are purchanges B) Finished goods are produinventory. C) Customer orders drive the D) Inventory levels are main 	ased in large quantities. uced ahead of customers' orden ne production process.	stem? ers to protect against running	out of finished goods
,	Answer: C	Ç		
	The production system designom A) activity-based system. C) full costing system. Answer: B	ed to eliminate waste is called	d a(n) B) lean production system. D) traditional system.	
	A system in which companies A) Traditional production sy C) ABC. Answer: D	-	when needed is called B) internal failure costs. D) JIT production.	
I	Which term listed below descr production and complete finisl A) TQM C) Just-in-time inventory Answer: C			ystem
(As part of, each busing continually setting higher goal A) ISO 9001:9008 C) lean production Answer: D		n activities and works to imp B) supply chain manageme D) TQM	-
	The philosophy and a business A) TQM. C) lean production. Answer: C	s strategy of manufacturing w	vithout waste is referred to as B) ISO 900. D) thin manufacturing.	
	Which of the following describ A) ISO Answer: D	oes a system in which supplie B) TQM	rs deliver materials at the tim C) ERP	e they are needed? D) JIT
	B) system where production	ormation between vendors an		
	Companies that wish to demore by what organization?			s may become certified D) IFRS
,	A) IMA Answer: B	B) ISO	C) SEC	D) IFK3

187)	Throughput time is cut	t when which of the follo	wing methods is used?	
	A) XBRL	B) JIT	C) IFRS	D) ISO
	Answer: B			
188)	The philosophy that ce	ntres on production as n	eeded is known as	
	A) ERP.		B) JIT.	
	C) Supply-chain ma	anagement.	D) TQM.	
	Answer: B			
189)	The philosophy of prov	viding superior goods an	d services is	
	A) ERP.		B) JIT.	
	C) Supply-chain ma	anagement.	D) TQM.	
	Answer: D			
SHORT A	ANSWER. Write the wo	ord or phrase that best co	ompletes each statement or ans	wers the question.
190)	Identify and explain so	ome of the reason why co	mpanies want to reduce invento	ory levels.
	•	•	oblems, production inefficiencie ry expensive	es, and obsolescence
191)	In a lean production er machine. What additio		orking in production cells ofter	do more than operate one
	Answer: Conduct mai	ntenance		
	Perform setu	os		
	Inspect their	own work		
	Operate other	r machines		
192)	Identify the common c	haracteristics of a lean pr	oduction system	
	Answer: Production of	ccurs in self-contained ce	ells	
	Broad employ	yee roles		
	Batches prod	uced Jus-in-Time		
	Reduced set-	-		
		anufacturing Cycle Time	S	
	Emphasis on			
	Supply chain	management		

MATCHING. Choose the item in column 2 that best matches each item in column 1.

Match the following:

193) Quality tends to be "build-in" rather than "inspect-in."

B) Lean

A) Traditional

194) Manufacturing plants tend to be organized with self-contained

production cells.

Answer: B

Answer: B

195) The company maintains lower quantities of raw materials, work in process, and finished goods inventories.

Answer: B

196) Set-up times are shorter.

Answer: B

197) High quality is stressed in every aspect of production.

Answer: B

198) Products are made in larger batches.

Answer: A

199) Emphasis is placed on shortening manufacturing cycle times.

Answer: B

200) Manufacturing plants tend to group like machinery together in different parts of the plant.

Answer: A

201) Set-up times are longer.

Answer: A

202) The company maintains high inventory levels to guarantee supply.

Answer: A

TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

203) Appraisal costs are incurred to detect poor-quality goods or services.

Answer: V True False

	204)	Internal fai to custome		OCO	cur when the company detects and c	orrects poor-quality goods or services after delivery
		Answer:	True	0	False	
	205)	Inspection costs.	of incomi	ng	raw materials and production loss ca	aused by downtime are examples of prevention
		Answer:	True	0	False	
	206)	Internal fai customers.	lure costs	OC	cur when poor-quality goods or serv	vices are not detected until after delivery to
		Answer:	True	0	False	
	207)	Product tes	iting is a p	orev	vention cost.	
		Answer: 0			False	
	208)	An exampl	e of an ap	pra	aisal cost is the cost of automating th	e production process.
	,	Answer:	True	•	False	, p
	209)	The cost of	training e	mr	oloyees would be classified as an ext	ernal failure cost
	207)	Answer:	True	-	False	ornar fallar o oost.
	210)	An ovemal	o of a prov	von	ition cost is the cost of redesigning th	as product to roduce its complexity
	210)	Answer:	•	vei	False	ie product to reduce its complexity.
	044)					
	211)	Answer:		ais	al costs are sometimes referred to as False	"conformance costs."
	212)				a unit found to be defective during in	nspection is an appraisal cost.
		Answer:	True	•	False	
	213)	•		of a	a unit found to be defective during in	nspection is an internal failure cost.
		Answer: •	True		False	
MUL	TIPL	E CHOICE	. Choose	the	e one alternative that best complete	s the statement or answers the question.
	214)	A) Net c	ost of spo	ilec		orevention cost on a cost of quality report? B) Supervision of quality inspections D) Warranty expenses on defective products
		Answer: C				
	215)	A) Train	ing for qu	ıali	cost items should be classified as an ty control employees ew product	internal failure cost on a cost of quality report? B) Customer returns of defective products D) Net cost of scrap
		Answer: D			, p. 11111	,
	216)	Which of th	ne followii	na	rost items should be classified as an	external failure cost on a cost of quality report?
	210)	A) Techr	nical supp	ort	provided to suppliers of defective products	B) Net cost of scrapD) Supplies used in the quality inspection program
		Answer: C				

A) Internal Failure Costs.C) Appraisal Costs.	B) Prevention Costs. D) External Failure Costs.
Answer: D	D) External randre costs.
7.11611617-2	
218) If a company were to increase its appraisal costs by inspecti company's internal failure costs	ing more units as the units are completed, the
A) would usually decrease.	B) would usually increase.
C) would usually remain the same.	D) could not be predicted.
Answer: B	
219) If a company were to increase its appraisal costs by inspecti company's external failure costs	ing more units as the units are completed, the
A) would usually decrease.	B) would usually increase.
C) would usually remain the same.	D) could not be predicted.
Answer: A	
220) The cost of supplier evaluation from a supplier would be cl	assified as a(n)
A) prevention cost.	B) appraisal cost.
C) internal failure cost.	D) external failure cost.
Answer: A	
221) The cost of maintaining testing equipment would be classif	ind as a(n)
A) prevention cost.	B) appraisal cost.
C) internal failure cost.	D) external failure cost.
Answer: A	
222) The cost of downtime caused by quality problems with the	
A) prevention cost.	B) appraisal cost.
C) internal failure cost.	D) external failure cost.
Answer: C	
223) The cost of fixing defective units found during the quality i	nspections would be classified as a(n)
A) prevention cost.	B) appraisal cost.
C) internal failure cost.	D) external failure cost.
Answer: C	
224) The cost of training quality control supervisors would be cl	assified as a(n)
A) prevention cost.	B) appraisal cost.
C) internal failure cost.	D) external failure cost.
Answer: B	
225) Which of the following is one of the four cost categories typ	sically found on a cost of quality report?
A) Prevention costs	B) Development costs
C) Marketing costs	D) Inventory failure costs
Answer: A	•

217) Warranty costs are classified as

A) Internal failure costs C) Prevention costs	B) External failure costs D) Appraisal costs
Answer: D	D) Appruisur costs
, we were a second of the seco	
227) What costs are incurred to avoid poor quality goods or serv	·
A) Appraisal costs	B) Prevention costs
C) Internal failure costs	D) External costs
Answer: B	
228) The costs incurred when poor quality goods or services are are called	e detected and corrected before delivery to customers
A) internal failure costs.	B) prevention costs.
C) appraisal costs.	D) external failure costs.
Answer: A	
229) The cost of inspection at various stages of production is an	example of a(n)
A) internal failure cost.	B) prevention cost.
C) appraisal cost.	D) external failure cost.
Answer: C	
230) The cost of warranty work is an example of a(n)	
A) external failure cost.	B) appraisal cost.
C) internal failure cost.	D) prevention cost.
Answer: A	
221) The cost of avaluating natantial raw material suppliers is a	on example of a(n)
231) The cost of evaluating potential raw material suppliers is aA) appraisal cost.	B) prevention cost.
C) internal failure cost.	D) external failure cost.
Answer: B	•
232) The cost of improved production equipment and production	
A) appraisal cost.	B) external failure cost.
C) internal failure cost.	D) prevention cost.
Answer: D	
233) The cost of product liability claims is an example of a(n)	
A) external failure cost.	B) internal failure cost.
C) prevention cost.	D) appraisal cost.
Answer: A	
234) The lost profits from lost customers are an example of	
A) appraisal costs.	B) prevention costs.
C) internal failure costs.	D) external failure costs.
Answer: D	
235) The cost of training production personnel on their job tasks	s is an example of a(n)
A) external failure cost.	B) appraisal cost.
C) internal failure cost.	D) prevention cost.
Answer: D	

226) Which of the following refers to costs incurred in detecting poor quality goods or services?

236) Production loss caused by downtime A) Appraisal cost	is an example of what type of cost? B) Prevention cost
C) Internal failure cost	D) External failure cost
Answer: C	2, 2.1.6.1.4.1.6.0.000
,e e	
237) Costs incurred to detect poor quality	=
A) appraisal costs.	B) activity-based costing.
C) value engineering.	D) prevention costs.
Answer: A	
238) Costs incurred to avoid poor quality of	goods or services are considered
A) appraisal costs.	B) activity-based costing.
C) value engineering.	D) prevention costs.
Answer: D	
220) Which of the following terms host dos	scribes costs incurred to avoid poor quality goods or services?
A) Appraisal costs	B) Activity-based costing
C) Value engineering	D) Prevention costs
Answer: D	5) 1100011101100010
Answer. D	
240) Which of the following terms best des	scribes costs incurred to detect poor quality goods or services?
A) Appraisal costs	B) Activity-based costing
C) Value engineering	D) Prevention costs
Answer: A	
241) Which term listed below describes cos	sts incurred when the company detects poor quality goods or services
before delivery to the customer?	
A) Lean production	B) External failure costs
C) Internal failure costs	D) Value added activity
Answer: C	
242) Which term listed below describes cos	sts incurred when the company fails to detect poor quality goods or
services?	no mounted when the company runs to detect poor quanty goods of
A) Value-added activity	B) Just-in-time production
C) External failure costs	D) Internal failure costs
Answer: C	
2/3) Which term below host describes the	quality cost category for "cost to re-inspect reworked food processors"?
A) Prevention costs	B) Appraisal costs
C) Internal failure costs	D) External failure costs
Answer: C	2, 2.1.6.1.4.1.4.1.6.3.33.1.5
Answer. C	
	quality cost category for "cost of warranty repairs on food processors"?
A) Prevention costs	B) Appraisal costs
C) Internal failure costs	D) External failure costs
Answer: D	

245) Which term below best describes the quality cosA) Prevention costsC) Internal failure costsAnswer: B	st category for "cost of testing food processors before sale"? B) Appraisal costs D) External failure costs
246) Which term below best describes the quality cosA) Prevention costsC) Internal failure costsAnswer: A	st category for "preventive maintenance on machinery"? B) Appraisal costs D) External failure costs
247) Which term below best describes the quality cosA) Prevention costsC) Internal failure costsAnswer: D	st category for "lost profits from lost sales"? B) Appraisal costs D) External failure costs
248) What external failure cost is very difficult to est	imate?

Answer: D

A) Warranty Costs

Use the information below to answer the following question(s).

C) Sales returns and allowances

Dylan Products has a budget of \$1,200,000 in 202X for prevention costs. If it decides to automate a portion of its prevention act will save \$90,000 in variable prevention costs. The new method will require \$40,000 in training costs and \$150,000 in annual eccosts. Management is willing to adjust the budget for an amount up to the cost of the new equipment. The budgeted productic is 210,000 units.

B) Cost of service calls

D) Lost profits from lost customers

Appraisal costs for the year are budgeted at \$500,000. The new prevention procedures will save appraisal costs of \$50,000. Intefailure costs average \$20 per failed unit of finished goods. The internal failure rate is expected to be 4% of all completed items. proposed changes will cut the internal failure rate by one-half. Internal failure units are destroyed. External failure costs avera \$48 per failed unit. The company's average external failures average 2.5% of units sold. The new proposal will reduce this rate to 1%. Assume all units produced are sold and there are no ending inventories.

- 249) What is the net change in the budget of prevention costs if the procedures are automated in 202X? Will management agree with the changes?
 - A) \$90,000 increase, no
 - B) \$90,000 decrease, yes
 - C) \$190,000 increase, no
 - D) \$100,000 decrease, yes
 - E) \$100,000 increase, yes

Answer: E

- 250) How much will appraisal costs change assuming that the new prevention methods reduce material failures by 30% in the appraisal phase?
 - A) \$229,000 decrease
 - B) \$50,000 decrease
 - C) \$84,000 decrease
 - D) \$150,000 decrease
 - E) \$50,000 increase

Answer: B

- 251) How much will internal failure costs change with the new procedures?
 - A) \$84,000 increase
 - B) \$ 84,000 decrease
 - C) \$126,000 decrease
 - D) \$168,000 decrease
 - E) \$50,000 decrease

Answer: B

- 252) How much do external failure costs change if all the changes are as the new prevention procedures anticipated? Assume all units produced are sold and there are no ending inventories.
 - A) \$151,200 decrease
 - B) \$158,900 decrease
 - C) \$100,800 decrease
 - D) \$126,000 decrease
 - E) \$156,400 decrease

Answer: A

253) Try-Us-First Motors manufactures and sells off-road vehicles. The September sales were \$6,000,000. Monthly design costs are \$112,000 and rework is running at \$75,000 per month. Its painting department is fully automated and requires substantial inspection to keep the machines operating properly. An improperly painted vehicle is very expensive to correct, and inspection hours for the 8,000 vehicles painted in September totaled 2,000 hours by 14 employees, who earn an average of \$28 an hour. Ten litres of paint were used on average for eavehicle. The standard amount of paint per vehicle is nine litres.

What are appraisal costs as a percentage of sales?

- A) 2.20%
- B) 2.80%
- C) 0.93%
- D) 1.87%
- E) 1.25%

Answer: C

SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

254) The CEO of Oakville Machine Parts (OMP) is concerned with the quality of its products and the amount of resou currently spent on customer returns. The CEO would like to analyze the costs incurred in conjunction with the quality product.

The following information was collected from various departments within the company:

Warranty returns	\$240,000
Training personnel	20,000
Litigation on product liability claims	350,000
Inspecting 10% of final products	10,000
Rework	20,000
Production loss due to machine breakdowns	90,000
Inspection of raw materials	10,000

Required:

- A. Complete the Cost of Quality Report.
- B. Do any additional subjective costs appear to be missing from the report?
- C. What can be learned from the report?

			Percentage of
	Costs	Total Costs	Total Costs
	Incurred	of Quality	of Quality
Prevention Costs:			

Personnel training		
l craoffici traiffing		
Total prevention costs		
Appraisal Costs:		
Inspecting raw materials		
Inspecting 10% of final		
products		
Total appraisal costs		
Internal Failure Costs:		
Rework		
Production loss due to		
machine breakdown		
Total internal failure costs		
External Failure Costs:		
Litigation costs from produc	t	
liability claims		
Warranty return costs		
Total external failure costs		
Total costs of quality		

Answer: Requirement A:

			Percentage of
	Costs	Total Costs	Total Costs
	Incurred	of Quality	of Quality
Prevention Costs:			
Personnel training	\$20,000		
Total prevention costs		\$20,000	3%
Appraisal Costs:			
Inspecting raw materials	\$10,000		
Inspecting 10% of final	\$10,000		
products			
Total appraisal costs		\$20,000	3%
Internal Failure Costs:			
Rework	\$20,000		
Production loss due to	\$90,000		
machine breakdown			
Total internal failure costs		\$110,000	15%
External Failure Costs:			
Litigation costs from produc	t \$350,000		
liability claims			
Warranty return costs	\$240,000		
Total external failure costs		\$590,000	79%
Total costs of quality		\$740,000	100%

Requirement B:

Because the company has warranty returns and litigation costs it is possible that it has a reputation for poc

Answer: quality. This may be resulting in lost sales and hence lost profits.

Requirement C:

The Cost of Quality report shows that little is being spent on prevention and maintenance.

255) The CEO of Prairie Machine Parts (PMP) is concerned with the quality of its products and the amount of resource currently spent on customer returns. The CEO would like to analyze the costs incurred in conjunction with the quality product.

The following information was collected from various departments within the company:

Warranty returns	\$144,000
Training personnel	120,000
Litigation on product liability claims	210,000
Inspecting 10% of final products	6,000
Rework	12,000
Production loss due to machine breakdowns	54,000
Inspection of raw materials	6,000

Required:

A. Complete the Cost of Quality Report.

B. Do any additional subjective costs appear to be missing from the report?

C. What can be learned from the report?

	Costs Incurred	Total Costs of Quality	Percentage of Total Costs of Quality
Prevention Costs:		,	,
Total prevention costs			
Appraisal Costs:			
Total appraisal costs			
Internal Failure Costs:			
Total internal failure costs			
External Failure Costs:			
Total external failure costs			
Total costs of quality			

Answer: Requirement A:

			Percentage of
	Costs	Total Costs	Total Costs
	Incurred	of Quality	of Quality
Prevention Costs:			
Personnel training	\$12,000		
Total prevention costs		\$12,000	3%
Appraisal Costs:			
Inspecting raw materials	\$6,000		
Inspecting 10% of final	\$6,000		
products			
Total appraisal costs		\$12,000	3%
Internal Failure Costs:			
Rework	\$12,000		
Production loss due to	\$54,000		
machine breakdown			
Total internal failure costs		\$66,000	15%
External Failure Costs:			
Litigation costs from produc	t \$210,000		
liability claims			
Warranty return costs	\$144,000		
Total external failure costs		\$354,000	79%
Total costs of quality		\$444,000	100%

Requirement B:

Because the company has warranty returns and litigation costs it is possible that it has a reputation for pocquality. This may be resulting in lost sales and hence lost profits.

Requirement C:

The Cost of Quality report shows that little is being spent on prevention and maintenance.

256) The CEO of Yuppie Prepared Meals is concerned about the amount of resources currently spent on customer warranty claims. Each box of snacks is printed with the guarantee: "Satisfaction guaranteed or your money back." Since the claims are so high, she would like to evaluate what costs are being incurred to ensure the quality of the product. The following information was collected from various departments within the company:

Warranty claims	\$210,000
Cost of defective products found at the inspection point	47,000
Training factory personnel	13,000
Recall of Batch #59374	87,500
Inspecting products when halfway through the production process	27,500
Cost of disposing of rejected products	6,000
Preventive maintenance on factory equipment	3,500
Production loss due to machine breakdowns	7,500
Inspection of raw materials	2,500

As the new cost accountant, the CEO has requested that you complete the following Cost of Quality Report:

		Percentage of
Costs	Total Costs	Total Costs
Incurred	of Quality	of Quality

Prevention Costs:		
Total prevention costs		
Appraisal Costs:		
Total appraisal costs		
Internal Failure Costs:		
Total Internal Failure		
costs		
External Failure Costs:		
Total external failure costs		
Total costs of quality		

Answer:

	Costs Incurred	Total Costs of Quality	Percentage of Total Costs of Quality
Prevention Costs:			
Personnel training	\$13,000		
Preventative maintenance on factory	\$3,500		
equipment			
Total prevention costs		\$16,500	4%
Appraisal Costs:			
Mid-point inspection	\$27,500		
Inspection of raw materials	\$2,500		
Total appraisal costs		\$30,000	7%
Internal Failure Costs:			
Cost of defective products found at the	\$47,000		
inspection point			
Cost of disposing of defective product	\$6,000		
Production loss due to machine breakdowns	\$7,500		
Total Internal Failure Costs		\$60,500	15%
External Failure Costs:			
Warranty claims	\$210,000		
Cost of recall	\$87,500		
Total external failure costs		\$297,500	74%
Total costs of quality		\$404,500	100%

257) The CEO of Yuppie Prepared Meals is concerned about the amount of resources currently spent on customer warranty claims. Each box of snacks is printed with the guarantee: "Satisfaction guaranteed or your money back." Since the claims are so high, she would like to evaluate what costs are being incurred to ensure the quality of the product. The following information was collected from various departments within the company:

Warranty claims	\$315,000
Cost of defective products found at the inspection point	70,000
Training factory personnel.	20,000
Recall of Batch #59374	130,000
Inspecting products when halfway through the production process	45,000
Cost of disposing of rejected products	9,000
Preventive maintenance on factory equipment	5,000
Production loss due to machine breakdowns	12,000
Inspection of raw materials	4,000

Required:

- 1 Complete a cost of quality report.
- 2 The CEO has determined that if prevention costs are increased by \$55,000, external failure costs will be reduced. What would be the impact on Yuppie Prepared Meals and should they do it?
- 3 The CEO has determined that if prevention costs are increased by \$55,000, both internal and external failure would be reduced by 10%. What would be the impact on Yuppie, and should they do it (consider all costs of qua

			Percentage of
	Costs	Total Costs	Total Costs
	Incurred	of Quality	of Quality
Prevention Costs:			
Total prevention costs			
Appraisal Costs:			
Total appraisal costs			
Internal Failure Costs:			
Total Internal Failure costs			
External Failure Costs:			
_			
Total external failure cos	is		
Total costs of quality			

Answer:

			Percentage of
	Costs	Total Costs	Total Costs
	Incurred	of Quality	of Quality
Prevention Costs:		J	5
Personnel training	\$20,000		
Preventative maintenance on	\$5,000		
factory equipment			
Total prevention costs		\$25,000	4%
Appraisal Costs:			
Mid-point inspection	\$45,000		
Inspection of raw materials	\$4,000		
Total appraisal costs		\$49,000	8%
Internal Failure Costs:			
Cost of defective products found	\$70,000		
at the inspection point			
Cost of disposing of defective	\$9,000		
products			
Production loss due to machine	\$12,000		
breakdowns			
Total Internal Failure Costs		\$91,000	15%
External Failure Costs:			
Warranty claims	\$315,000		
Cost of recall	\$130,000		
Total external failure costs		\$445,000	73%
Total costs of quality		\$610,000	100%

2 - Increase Prevention Cost \$55,000 External Failure cost savings \$445,000 \times 20% (89,000) Net Savings \$44,000

They should implement the change

3 - Increase Prevention Cost	\$55,000
Internal and External Failure cost savings (\$91,000 + 445,000) × 20%	(53,600)
Net Cost	<u>\$ 1,400</u>

Based on the identifiable costs of quality they may argue that they should not implement the change, howelest sales due to poor quality is an unknown amount. Yuppie may gain sales with an improvement in quality

258) Carl Clarkson and Lenny Lenid have been assigned to review the costs of quality at the Sprotton Chemicals Ltd. for the month of September. All amounts are in thousands (000's).

Cost Item	Amount	
Product testing	\$350	
Clean up of toxic spills within the plant	\$14,200	
Employee training	\$200	
Quality Engineering	\$675	
Supplies used in testing	\$500	
Statistical Process Control	\$1,750	
Payments on lawsuits from product failures	\$25,000	

Some information from a competitor, Sheltonville Industries, has been leaked. You learn that Sheltonville's costs quality (as a percentage of total costs of quality) is 15% on external failure, 20% on internal failure, 35% on appraisance.

the rest on prevention.

Required:

- a. Prepare a cost of quality report for September for the Sprotton Chemicals including calculations of each cost category as a percentage of total costs of quality.
- b. Compare Sprotton's approach to quality management to Sheltonville's. Comment on your findings. (What ar implications of the differences?)

Answer: a.

	Sprotton Sept	% of Cost	Sheltonville
Prevention:			
Quality Engineering	\$675		
Employee Training	\$200		
Statistical Process Control	<u>\$1,750</u>		
Total Prevention Costs	\$2,625	6.15%	30.00%
Appraisal:			
Product Testing	\$350		
Supplies used in Testing	<u>\$500</u>		
Total Appraisal Costs	\$850	1.99%	35.00%
Internal Failure:			
Cleanup of toxic spills in plant	<u>\$14,200</u>		
Total Internal Failure	\$14,200	33.27%	20.00%
External Failure:			
Lawsuits	\$25,000		
Total External Failure	\$25,000	58.58%	15.00%
Total Costs of Quality	\$42,675		

b.

There is a distinct difference as to the distribution of the costs of quality between the two organizations. Sheltonville invests more in upstream costs (65% in prevention and appraisal costs) compared to Sprotton (8.14%). Failures downstream are generally more costly in terms of both actual costs (product costs are inc when units fail and external failure costs tend to be high) and the opportunity costs from lost sales.

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

259) Cari and Jereme just bought a bed and breakfast inn at a very attractive price. The business had been doing poor Before they reopened the inn for business, they attended a seminar on operating a high quality business. Now the are ready to open the inn, they need some advice on quality costs and management.

Required:

Identify four categories of quality costs. In addition, identify three items that would be classified in each of the categories.

Answer: Prevention:

 $\label{prop:equation:equation} \mbox{Hiring employees with good references}.$

Training of owners and employees.

Good security.

Good reservation system. Purchasing quality furniture.

Appraisal:

Verifying accuracy of reservation and registration procedures. Inspecting rooms, facilities, building and grounds regularly. Observing activities of employees.

Testing furniture and fixtures.

Taste testing food.

Internal failure:

Recleaning rooms and facilities.

Restocking rooms with linens, glasses, etc.

Out of stock supplies.

Reinspection.

Failure to bill on a timely basis.

External failure:

Responding to complaints about rooms and food.

Responding to complaints about reservations.

Emergency cleaning of rooms when not ready on time.

Customer refunds because of unsatisfactory conditions.

Opportunity cost of lost revenue resulting from unhappy customers.