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Chapter 2 - An introduction to cost terms and concepts

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UĽ	LTIPLE CHOICE		
1.	 A supervisor's salary of £2,00 a. fixed cost. b. variable cost. c. step cost. d. mixed cost. 	00 per month is an e	example of a
	ANS: A PTS:	1 REF	F: 2.5
2.	2. Fixed cost per unit is £9 when What is the total fixed cost w a. £120,000 b. £270,000 c. £15 d. £180,000		produced and £6 when 30,000 units are produce duced?
	ANS: D SUPPORTING CALCULATE £9 × 20,000 = $\underline{£180,000}$	IONS:	
	PTS: 1 REF:	2.5	
3.	which of the following costs a. total direct material costs b. a consultant paid £75 per	would be represented hour with a maxim £10 per hour and gu	axis and volume of activity on the horizontal axis ted by a line that is parallel to the horizontal axis num fee of £1,200 uaranteed a minimum weekly wage of £200
	ANS: D PTS:	1 REF	F: 2.5
4.	 Which of the following costs supervisors' salaries research and developmen materials used in product rent 	t	
	ANS: C PTS:	1 REF	F: 2.5
5.	5. As the volume of activity incra. decreases.b. decreases at first, then incc. remains the same.d. increases.		elevant range, the variable cost per unit
	ANS: C PTS:	1 REF	F: 2.5
6.	6. Direct materials are an examp	ole of a	

- a. fixed cost.
- b. variable cost.
- c. step cost.

1		
d.	mixed	coct
u.	IIIIACU	COSt.

ANS: B PTS: 1 REF: 2.5

- 7. Which of the following statements is TRUE about fixed and variable costs?
 - a. Both costs are constant when considered on a per-unit basis.
 - b. Both costs are constant when considered on a total basis.
 - c. Fixed costs are constant in total and variable costs are constant per unit.
 - d. Variable costs are constant in total and fixed costs are constant per unit.

ANS: C PTS: 1 REF: 2.5

- 8. The direct material cost is £10,000 when 2,000 units are produced. What is the direct material cost for 2,500 units produced?
 - a. £10,000
 - b. £8,000
 - c. £15,000
 - d. £12,500

ANS: D

SUPPORTING CALCULATIONS: $£10,000/2,000 \times 2,500 = £12,500$

PTS: 1

REF: 2.3

9. Holly Ltd. has the following costs for 1,000 units:

	<u>Total Cost</u>	Cost per Unit
Direct materials	£ 1,500	£ 1.50
Direct labour	7,500	7.50
Depreciation on building	30,000	30.00

What is the total amount of direct materials for 100 units?

- a. £1.50
- b. £3.00
- c. £150.00
- d. £225.00

ANS: C

SUPPORTING CALCULATIONS:

 $100 \times £1.50 = £150$

PTS: 1 REF: 2.3

- 10. Assuming costs are represented on the vertical axis and volume of activity on the horizontal axis, which of the following costs would be represented by a line that starts at the origin and reaches a maximum value and beyond the point that the line becomes parallel to the horizontal axis?
 - a. total direct material costs
 - b. a consultant paid £100 per hour with a maximum fee of £2,000
 - c. employees who are paid £15 per hour and guaranteed a minimum weekly wage of £300
 - d. rent on exhibit space at a convention

ANS: B PTS: 1 REF: 2.5

11. Adams Ltd. rents a truck for a flat fee plus an additional charge per mile. What type of cost is the rent?

	a. fixed costb. mixed costc. variable costd. step cost		
	ANS: B	PTS: 1	REF: 2.5
12.	Mixed costs contain a. product and period b. fixed and variable c. direct and indirect d. controllable and	od costs. le costs.	
	ANS: B	PTS: 1	REF: 2.5
13.	a. total costs will inb. total costs will inc. total variable cost	e increases from 8,000 ncrease by 20 per cent. ncrease by 25 per cent. sts will increase by 25 ble costs will increase	per cent.
	ANS: C	PTS: 1	REF: 2.5
14.	An equipment lease example of a a. fixed cost. b. variable cost. c. step cost. d. mixed cost.	that specifies a paymer	nt of £5,000 per month plus £8 per machine hour used is an
	ANS: D	PTS: 1	REF: 2.5
15.	a. cost of disposableb. cost of soaking seffectiveness.)c. cost of tuition at hours are free.)	solution to clean jewelr	ry (Each jar can soak 50 rings before losing up to 15 credit hours (Hours taken in excess of 15
	ANS: A	PTS: 1	REF: 2.5
16.	Salaries paid to shift a. step-variable cost b. step-fixed cost. c. variable cost. d. mixed cost.	supervisors is an exan st.	mple of a
	ANS: B	PTS: 1	REF: 2.5
17.	Sunk costs are a. future costs that b. relevant costs that c. target costs. d. cannot be avoided	at have only short-run	benefits.

	ANS: D	PTS:	1	REF:	2.8
18.	Which item is not an a. materials needed b. purchase cost of c. depreciation d. All are sunk cost.	for promachine	duction	t?	
	ANS: A	PTS:	1	REF:	2.8
19.	Which of the following as power cost in the bound in the manner. In abour cost paid of the decision of the payments of the cost payment	machir ufacture on a pie	ning departmen e of furniture ce basis		st?
	ANS: D	PTS:	1	REF:	2.5
20.	Variable costs, a. in total, remain c b. on a per unit basi c. on a per unit basi d. in total, decrease	s, are co s, decre	onstant as actives ases as activity	ity incr	reases or decreases.
	ANS: B	PTS:	1	REF:	2.5
21.	Which of the following as insurance on the bound direct materials control the production sund. depreciation of the control of	product perviso	ion equipment r's salary	ariable	cost?
	ANS: B	PTS:	1	REF:	2.5
22.	-	variable s, are co	e component. onstant as activ	ity incr	reases or decreases.
	ANS: C	PTS:	1	REF:	2.5
23.	Whether a cost is fixed. a. fixed. b. variable. c. mixed. d. step.	ed or va	riable depends	on the	time horizon. In the long run, all costs are
	ANS: B	PTS:	1	REF:	2.5
24.	 Which statement desc a. discontinuous b. displays a constasome point c. must be purchase 	nt level	of cost for a ra		output and then jumps to a higher level at

d. All of the above describe step-cost behaviour.

	ANS: D	PIS: I	(EF: 2.5	
25.	An equipment lease to example of a a. fixed cost. b. variable cost. c. mixed cost. d. step cost.	that specifies payment	£1,000 per month plus	£5 per machine hour used is an
	ANS: D	PTS: 1	REF: 2.5	
26.	Which of the following a. fixed costs b. variable costs c. step costs d. mixed costs	ing cost behaviour patt	ns are unrelated to unit a	activity?
	ANS: A	PTS: 1	REF: 2.5	
27.	a. property taxes orb. the wheels on an	n the manufacturing fa		th respect to volume?
	ANS: B	PTS: 1	REF: 2.5	
28.	a. the salary of theb. the cost of a copy	_		-
	ANS: D	PTS: 1	REF: 2.5	
29.	a. Step costs increab. Step costs have rc. Step costs are co activity.	nriable within narrowly	nit produced. units produced. ges of activity but differ	outside those ranges of , but constant over wider
	ANS: C	PTS: 1	REF: 2.5	
30.	a. unexpired cost.b. expense.c. loss.d. asset.	e production of revenue		
	ANS: B	PTS: 1	REF: 2.4	
31.	Which of the following a. a product	ing is an example of a	ssible cost object?	

	b. a customerc. a departmentd. All of these could be possible cost objects.
	ANS: D PTS: 1 REF: 2.4
32.	Which of the following costs incurred by a chair manufacturer would be traced to the product cost through direct tracing? a. the depreciation on factory equipment b. the supervisor's salary c. the insurance on the factory building d. the woodmaker's salary
	ANS: D PTS: 1 REF: 2.4
33.	Which of the following costs incurred by a bus manufacturer would NOT be directly attributable to the finished product? a. the wages paid to assembly-line production workers b. the tires for buses c. the windshields for buses d. the depreciation on factory building
	ANS: D PTS: 1 REF: 2.4
34.	Direct costs a. are incurred for the benefit of the business as a whole. b. would continue even if a particular product were discontinued. c. can be assigned to product only by a process of allocation. d. are those costs that can be easily and accurately traced to a cost objective.
	ANS: D PTS: 1 REF: 2.3
35.	The direct costs of operating a university computer centre would NOT include a. rent paid for computers. b. a fair share of university utilities. c. paper used by the centre. d. computer consultants' salaries.
	ANS: B PTS: 1 REF: 2.3
36.	Which of the following costs is NOT a product cost? a. rent on an office building b. indirect labour c. repairs on manufacturing equipment d. steel used in inventory items produced
	ANS: A PTS: 1 REF: 2.4
37.	Which of the following costs is an example of product costs? a. selling commissions b. nonfactory office salaries c. direct materials d. advertising expense
	ANS: C PTS: 1 REF: 2.4

38. Which of the following costs incurred by a furniture manufacturer would be a product cost? a. lumber b. office salaries c. commissions paid to sales staff d. controller's salary ANS: A PTS: 1 REF: 2.4 39. In a traditional manufacturing company, product costs include a. direct materials only. b. direct materials, direct labour, and factory overhead. c. direct materials and direct labour only. d. direct labour only. ANS: B PTS: 1 REF: 2.4 40. Which of the following costs is an indirect product cost? a. property taxes on plant facilities b. wages of assembly workers c. materials used d. president's salary ANS: A PTS: 1 REF: 2.4 41. If total warehousing cost for the year amounts to £350,000, and 40 per cent of the warehousing activity is associated with finished goods and 60 per cent with direct materials, how much of the cost would be charged as a product cost? a. £70,000 b. £140,000 c. £210,000 d. £350,000 ANS: C SUPPORTING CALCULATIONS: £350,000 × 0.60 = £210,000PTS: 1 REF: 2.4 42. All of Jill Enterprise's operations are housed in one building with the costs of occupying the building accumulated in a separate account. The total costs incurred in May amounted to £24,000. The company allocates these costs on the basis of square feet of floor space occupied. Administrative offices, sales offices, and factory operations occupy 9,000, 6,000, and 30,000 square feet, respectively. How much will be classified as a product cost for May? a. £4,800 b. £3,200 c. £16,000 d. £24,000 ANS: C SUPPORTING CALCULATIONS: $[30,000/(9,000+6,000+30,000)] \times £24,000 = £16,000$ PTS: 1 REF: 2.4 43. Which of the following costs would be included as part of factory overhead?

	a. depreciation of pb. paint used for prc. depreciation ond. paper used in the	oduct fini the corpor	ish ration's office	buildin	g
	ANS: A	PTS:	1	REF:	2.3
44.	Which of the follow sailboats? a. factory supplies b. canvas used in s c. depreciation of fd. indirect material	used ail actory bu		e classi	ified as part of factory overhead of a firm that makes
	ANS: B	PTS:	1	REF:	2.3
45.	Selling and administ a. product costs. b. conversion costs c. period costs. d. factory overhead		sts are classific	ed as	
	ANS: C	PTS:	1	REF:	2.4
46.	An example of a per a. insurance on fac b. chief executive's c. property taxes of d. wages of factory	tory equip s salary. n factory	pment. building.		
	ANS: B	PTS:	1	REF:	2.4
47.	Which of the follow a. accountant's sala b. wages of machin c. insurance on fac d. fringe benefits o	iry ne operato tory equi	ors pment	st for a	manufacturing company?
	ANS: A	PTS:	1	REF:	2.4
48.	are expensed in a. Direct materials b. Product costs c. Factory overhead. Nonproduction of	d	od in which th	ey are i	incurred.
	ANS: D	PTS:	1	REF:	2.4
49.	Prime product costs a. only factory ove b. only direct labou c. direct labour and d. direct materials	rhead. ır. l factory o			
	ANS: D	PTS:	1	REF:	2.3

50.	are expensed in the period in which they are incurred. a. Direct materials b. Product costs c. Noninventoriable costs d. Inventoriable costs
	ANS: C PTS: 1 REF: 2.4
51.	Product costs are converted from cost to expense when a. units are completed. b. materials are purchased. c. units are sold. d. materials are requisitioned.
	ANS: C PTS: 1 REF: 2.4
52.	TEK, Inc., is considering whether to replace a production machine with a newer model of the same machine. If TEK keeps the old machine, the trade-in value of the old equipment is an example of a(n) a. sunk cost. b. opportunity cost. c. avoidable cost. d. imputed cost.
	ANS: B PTS: 1 REF: 2.9
53.	Which of the following costs is NOT recorded in the company's accounting system? a. sunk cost b. opportunity cost c. direct cost d. indirect cost
	ANS: B PTS: 1 REF: 2.9
54.	Harry has just received his bachelor's degree and is considering two alternatives. (1) He could obtain an entry-level accounting position paying £30,000 per year. (2) He could obtain his master's degree with one more year of study and work part-time for £8,000 per year. The opportunity cost associated with Harry obtaining his master's degree is a. £-0 b. £22,000. c. £30,000. d. £38,000.
	ANS: C PTS: 1 REF: 2.9
55.	Direct costs a. can be assigned to cost objects in an economically feasible way. b. are typically assigned to cost objects using a cause-and-effect relationship. c. result in more accurate cost assignments. d. do all of the above.
	ANS: D PTS: 1 REF: 2.3
56.	Mulholland Company manufactures various wooden furniture products. If the cost object is a product, a chair, what costs would be considered direct? a. manufacturing supervisor's salary b. depreciation on the factory building

	ANS:	С	PTS:	1	REF:	2.3
57.	a. allb. ovc. no	ocation is requirerall accuracy i	ired by s impro ship ex	external report oved by allocati ists between in	ing req ion. direct o	ed to cost objects because uirements.
	ANS:	C	PTS:	1	REF:	2.3
58.	a. dinb. dinc. ma	ages of a produ rect materials. rect labour. anufacturing ov lling and admin	erhead		tor wo	uld be classified as
	ANS:	В	PTS:	1	REF:	2.3
59.	a. adb. insc. de	of the following vertising expensurance on the oppreciation of the preciation of the	ditures office b e salesi	uildings men's cars		
	ANS:	D	PTS:	1	REF:	2.4
60.	a. dinb. dinc. mad. sel	the following a rect materials. rect labour. anufacturing ov lling and adminute of the above	erhead.		EPT	
	ANS:	D	PTS:	1	REF:	2.4
61.	a. the b. din c. prod. pro	of the following production supports taxes on operty taxes on	the off	r's salary ice building oduction faciliti		
	ANS:	С	PTS:	11	REF:	2.4
62.	a. vab. dec. de	osts are critical luing inventory termining net in cisions to enter of the above.	ncome.	product line.		
	ANS:	D	PTS:	1	REF:	2.5
ROE	BLEM					

c. salary of the worker that glues the legs to the seat of the chair

d. insurance on the factory

1. The Penang Company has the following information available regarding costs at various levels of monthly production:

Production volume	<u>7,000</u>	<u>10,000</u>
Direct materials	£ 70,000	£100,000
Direct labour	56,000	80,000
Indirect materials	21,000	30,000
Supervisors' salaries	12,000	12,000
Depreciation on plant and equipment	10,000	10,000
Maintenance	32,000	44,000
Utilities	15,000	21,000
Insurance on plant and equipment	1,600	1,600
Property taxes on plant and equipment	2,000	2,000
Total	£219,600	£300,600

Required:

a. Identify each cost as being variable, fixed, or mixed by writing the name of each cost under one of the following headings:

Variable Costs

Fixed Costs

Mixed Costs

- b. Develop an equation for total monthly production costs.
- c. Predict total costs for a monthly production volume of 8,000 units.

ANS:

a.	Variable Costs	Fixed Costs	Mixed Costs
	Direct materials	Supervisors' salaries	Maintenance
	Direct labour	Depreciation	Utilities
	Indirect materials	Insurance	
		Property taxes	

- b. Variable costs = (£300,600 £219,600)/(10,000 7,000) = £27.00Fixed costs = £300,600 - $(£27.00 \times 10,000) = £30,600$ per month Total monthly production costs = £30,600 + £27.00(# of units)
- c. Total costs = £30,600 + (£27.00 × 8,000) = £246,600

PTS: 1 REF: 2.5

2. Classify each of the following costs as variable, fixed, mixed, or step by writing an X under one of the following headings (Sales volume is the cost driver).

	<u>Variable</u>	<u>Fixed</u>	Mixed	Step
1. Total selling and administrative costs				
2. Salaries of supervisors of five employees				
3. Raw materials used in production				
4. Power consumption in a restaurant				
5. Cost of goods sold in a bookstore				
6. Salaries of employees who handle 20 claims				
per month				
7. Pulpwood in a paper mill				
8. Salaries of two secretaries in the corporate				

	office		
9.	Total current manufacturing costs		
	The cost of an automobile rented on the basis of a daily charge plus £.30 per mile		

ANS:

	<u>Variable</u>	Fixed	Mixed	Step
1. Total selling and administrative costs			X	
2. Salaries of supervisors of five employees				X
3. Raw materials used in production	X			
4. Power consumption in a restaurant			X	
5. Cost of goods sold in a bookstore	X			
6. Salaries of employees who handle 20 claims				X
per month				
7. Pulpwood in a paper mill	X			
8. Salaries of two secretaries in the corporate		X		
office				
9. Total current manufacturing costs			X	
10. The cost of an automobile rented on the basis			X	
of a daily charge plus £.30 per mile				

PTS: 1 REF: 2.5

- 3. Classify the following costs incurred by a step railing manufacturing company as direct materials, direct labour, factory overhead, or period costs:
 - a. Wages paid to production workers
 - b. Utilities in the office
 - c. Depreciation on machinery in plant
 - d. Steel
 - e. Accountant's salary
 - f. Rent on factory building
 - g. Rent on office equipment
 - h. Maintenance workers' wages
 - i. Utilities in the plant
 - j. Maintenance on office equipment

ANS:

a. Direct labour f. Factory overhead

b. Period g. Period

c. Factory overheadd. Direct materialsh. Factory overheadi. Factory overhead

e. Period j. Period

PTS: 1 REF: 2.3|2.4