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Part I Solutions

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An introduction to cost terms and concepts

Solutions to Chapter 2 questions

(1) (a); (2) (d); (3) (e); (4) (f); (5) (i); (6) (b); (7) (h).

Solution IM 2.2 Direct labour (i) Direct materials (ii) (iii) Direct expenses 9 16 10 Indirect production Research and Selling and (iv) (v) (vi) overhead development costs distribution costs 1 20 7 6 11 8 12 18 13 19 17 (vii) Administration costs (viii) Finance costs 2 5 3 4 14 15

(a) Variable cost per running hour of Machine XR1

(£) (£27 500/1100 hours)= 25 Fixed cost $(\pounds 20\ 000/1100\ hours) =$ 18.182 Cost of brain scan on Machine XRI: (£) Variable machine cost (4 hours \times £25) 100 X-ray plates 40 Total variable cost 140 Fixed machine cost (4 hours \times £18.182) 72.73 Total cost of a scan 212.73 Total cost of a satisfactory scan (£212.73/0.9) 236.37

(b) It is assumed that fixed costs will remain unchanged and also that they are not relevant to the decision. The relevant costs are the incremental costs of an additional scan:

Machine XR1:	(£)
Variable cost per scan	140
Variable cost per satisfactory scan (£140/0.9)	155.56
Machine XR50:	(£)

AN INTRODUCTION TO COST TERMS AND CONCEPTS

Solution IM 2.1

Solution IM 2.3

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		Variable machine cost per scan (£64 000/2000 hours \times 1.8 hours) X-ray plates			57.60 55.00
	Va	Variable cost per scan Variable cost per satisfactory scan (£112.60/0.94)			112.60
	Va				119.79
		The relevant costs per satisfactory scan are cheaper on Machine therefore brain scans should be undertaken on this machine.			
Solution IM 2.4	(a)	Sta	andard cost sheet (per unit))	
			(, ,	(£)	(£)
		Direct materials 40 m ² Direct wages:	² at £5.30 per m ²		212
		e	ours at £12.50 per hour	600	
			ours at £9.50 per hour	285	
					885
	(i)	Prime cost			1097
		Variable overhead: ^{<i>a</i>}	. (0.75 1	26	
			ours at $\pounds 0.75$ per hour ours at $\pounds 0.50$ per hour	36 15	
		Thisming dept 50 h			51
	(ii)	Variable production c	ost		$\frac{-31}{1148}$
		Fixed production overhead ^{b}			40
		Total production cost			1188
		Selling and distribut		20	
		Administration cost	C	10	
					30
	(iv)	Total cost			1218
	No	Notes			
	^a V	ariable overhead rates:	Bonding = $\frac{\pounds 375\ 000}{500\ 000\ hours}$	= £0.75	
			£150,000	= £0.50	

^b Fixed production overhead rate per unit of output = $\frac{\pounds 392\ 000}{9800\ units} = \pounds 40$

The fixed production overhead rate per unit of output has been calculated because there appears to be only one product produced. Alternatively, a fixed production hourly overhead rate can be calculated and charged to the product on the basis of the number of hours which the product spends in each department.

^c Selling and production cost per unit of output =
$$\frac{\pounds 196\ 000}{9800\ units} = \pounds 20$$

Administration cost per unit of output = $\frac{\pounds 98\ 000}{9800\ units} = \pounds 10$
(b) Selling price per unit $\pounds 1218 \times \frac{100}{85} = \underline{1433}$

AN INTRODUCTION TO COST TERMS AND CONCEPTS

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