# Chapter 8

# E8.7 Sweet Inspiration

(i)

	Fixed	Variable	
	costs	costs	
	£	£	
Promotion and marketing costs	5,000		
Chocolate bar ingredients		3,200	
Operators' wages		10,300	
Factory manager's salary	2,000		
Chocolate bar packaging		4,000	
Administrative and accounting costs	1,000		
Total costs	8,000	17,500	

#### (ii)

You should refer to the relevant sections in Chapter 8 to check your outline of the approaches that may be taken to valuation of stocks of chocolate bars at the end of a month. Your solution may be supported by the following calculations.

#### Marginal costing

The variable costs in respect of the product incurred during a month total  $\pounds 17,500$  and relate to 6,000 chocolate bars.

The variable cost per chocolate bar is therefore £17,500/6,000 = £2.92

Chocolate bars may be costed on a variable (or marginal) costing basis.

The 200 chocolate bars in stock at the end of the month would be valued at  $200 \text{ x} \pounds 2.92 = \pounds 583$ .

### Absorption costing

The total costs incurred during a month are £25,500 and relate to 6,000 chocolate bars.

The full cost per chocolate bar is therefore  $\pounds 25,500/6,000 = \pounds 4.25$ 

Chocolate bars may be costed on a full, or absorption, costing basis.

The 200 chocolate bars in stock at the end of the month would be valued at  $200 \text{ x} \pounds 4.25 = \pounds 850$ .

# E8.8 Little Sweep

(i)

	Servici	ing machinery	costs for 3 years		
	Variable	costs	Fixed	costs	Total costs
Figures in £	Replacement	Other	Maintenance	Depreciation	
	parts	running	costs		
Quarter		costs			
1	600	850	350	3,692	5,492
2	600	850	350	3,385	5,185
3	600	850	350	3,077	4,877
4	600	850	350	2,769	4,569
5	600	850	350	2,462	4,262
6	600	850	350	2,154	3,954
7	600	850	350	1,846	3,646
8	600	850	350	1,538	3,338
9	600	850	350	1,231	3,031
10	600	850	350	923	2,723
11	600	850	350	615	2,415
12	600	850	350	308	2,108
Total	7,200	10,200	4,200	24,000	45,600

Little Sweep Ltd

# Working

Depreciation	n		
Machinery of	cost	£25,00	00
Estimated re	esale value	£1,00	00
Net cost		£24,00	00 to be depreciated over 12 months
Sum of the o	ligits: 1+2+3-	+4+5+6-	+7+8+9+10+11+12 = 78
Quarter 1:	£24,000/78	x 12 =	= £3,692
Quarter 2:	£24,000/78	x 11 =	= £3,385
Quarter 3:	£24,000/78	x 10 =	= £3,077
and so on to			
Quarter 12:	£24,000/78	x 1 =	= £308
Total:			£24,000

(ii)

# Marginal costing

The variable co	sts for each year are as f	ollows:
Year 1	$4 x (\pounds 600 + \pounds 850) =$	£5,800
Year 2	$4 x (\pounds 600 + \pounds 850) =$	£5,800
Year 3	$4 x (\pounds 600 + \pounds 850) =$	£5,800
Total	ł	£17,400

The average marginal costs for each customer are  $\pounds 5,800/100 = \pounds 58$  per year

(iii)

#### Absorption costing

The total costs for each year are as follows:

Year 1	$\pounds 3,692 + \pounds 3,385 + \pounds 3,077 + \pounds 2,769 + 4 x (\pounds 600 + \pounds 850 + \pounds 350)$	=	£20,123
Year 2	$\pounds 2,462 + \pounds 2,154 + \pounds 1,846 + \pounds 1,538 + 4 x (\pounds 600 + \pounds 850 + \pounds 350)$	=	£15,200
Year 3	$\pounds 1,231 + \pounds 923 + \pounds 615 + \pounds 308 + 4 x (\pounds 600 + \pounds 850 + \pounds 350)$	=	£10,277
Total			£45,600

The average absorption costs for each customer are

Year1	$\pounds 20,123/100 = \pounds 201$ per year
Year2	$\pounds 15,200/100 = \pounds 152$ per year
Year2	$\pounds 10,277/100 = \pounds 103$ per year

(iv)

You should refer to the relevant sections in Chapter 8 to check your report on the relevance of the split of costs into fixed and variable, and the implications regarding the depreciation policy adopted by Little Sweep Ltd.