Paul Robbins training and consultancy

Management Accounting - Costing

Cost Classification and Ordering & Issuing Inventory

High / Low Technique - Exercise

Model Answers

Task 1

You have been provided with the following information:

Production Output (Units)	Total Cost (£)
750	22,600
900	25,900
150	3,300

1. Calculate the variable cost per unit

VC per unit = £3,300 / 150 units = £22 per unit

2. Calculate the fixed cost element

<u>For 750 units:</u> FC = TC - VC

 $FC = £22,600 - (£22 \times 750), FC = £22,600 - £16,500, FC = £6,100$

3. Calculate the total cost for a production output of 1,300 units

TC = FC + VC

 $TC = £6,100 + (£22 \times 1,300), TC = £6,100 + £28,600, TC = £34,700$

Task 2

You have been provided with the following information:

Production Output (Units)	Total Cost (£)
5,650	49,400
6,100	53,000
450	3,600

1. Calculate the variable cost per unit

2. Calculate the fixed cost element

$$FC = £49,400 - (£8 \times 5,650), FC = £49,400 - £45,200, FC = £4,200$$

3. Calculate the total cost for a production output of 6,850 units

$$TC = FC + VC$$

$$TC = £4,200 + (£8 \times 6,850), TC = £4,200 + £54,800, TC = £59,000$$

Task 3

You have been provided with the following information:

Production Output (Units)	Total Cost (£)
12,500	236,475
14,880	275,745
2,380	39,270

1. Calculate the variable cost per unit

VC per unit = £39,270 / 2,380 units = £16.50 per unit

2. Calculate the fixed cost element

$$FC = £236,475 - (£16.50 \times 12,500), FC = £236,475 - £206,250, FC = £30,225$$

3. Calculate the total cost for a production output of 16,000 units

$$TC = FC + VC$$

 $TC = £30,225 + (£16.50 \times 16,000), TC = £30,225 + £264,000, TC = £294,225$

Task 4

You have been provided with the following information:

Production Output (Units)	Total Cost (£)
3,150	21,430
4,040	25,435
890	4,005

1. Calculate the variable cost per unit

VC per unit = £4,005 / 890 units = £4.50 per unit

2. Calculate the fixed cost element

$$FC = £21,430 - (£4.50 \times 3,150), FC = £21,430 - £14,175, FC = £7,255$$

3. Calculate the total cost for a production output of 4,350 units

$$TC = FC + VC$$

$$TC = £7,255 + (£4.50 \times 4,350), TC = £7,255 + £19,575, TC = £26,830$$