COST SHEET - Q5

Let X be the cost, Y be the profit and Rs. 1,600 selling price per unit of radio manufactured by a company. Hence

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Statement of present and future Cost of a radio

Particulars	Present cost	Increase in cost	Anticipated future cost	
Direct material	0.3 X	0.09 X	0.39 X	
Direct labour	0.4 X	0.04 X	0.44 X	
Overheads	0.3 X		0.30 X	
Total	X	0.13 X	1.13 X	

An increase in material price and wage rates resulted into a decrease in current profit by 40 percent at present selling price; therefore we have:

1.13 X + 0.6 Y = 1,600 -----(ii)

On solving (i) and (ii) we get:

X = Rs. 1,207.55 & Y = Rs. 392.45

Current profit Rs. 392.45 or 32.5% of cost

Future profit Rs. 235.47'

Statement of revised selling price to maintain the present rate of profit

	Rs.
Direct material cost (0.39 x Rs. 1,207.55)	470.94
Direct labour cost (0.44 x Rs. 1207.55)	531.32
Overheads (0.30 x Rs. 1.207.55)	362.27
Total cost	1,364.53
Profit (32.5% of total cost)	443.47
Revised selling price	1,808.00
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