

Question 1

Cost Classification

You have to try and find the unknowns using T accounts.

Just make sure each T has a Beginning ,added, transferred out and ending balance. Round to two decimal places.

Because of water damage, you only have partial data:

Prime Costs used	\$500,000
Gross Profit	25%
Costs of Goods Available for sale	\$655,000
Direct Material purchased	\$240,000
Beginning Inventories:	
Raw Material	\$32,000
Work in Process	\$66,000
Finished Goods	\$62,000
Sales	\$750,000
Direct Labour Used	\$280,000
Factory Overhead	42% of Conversion Costs
(Indirect labour and materials, utilities, depreciation etc were 42% of Conversion cost...that is direct labour + manufacturing overhead)	

Question 2

Cryo does testing and has provided you with the following:

	Number of Tests	Total Test Costs
Jan	3125	\$ 14,000
Feb	3500	\$ 14,500
Mar	2500	\$ 11,500
Apr	2125	\$ 10,000
May	2250	\$ 11,000
June	1500	\$ 8,500
July	1550	\$ 8,400
Aug	2750	\$ 12,000
Sept	2850	\$ 13,000

Use HI/LO to get the cost formula (fixed+(Variable*Volume))

What is the cost formula using regression...see below

At 2300 tests, what is the predicted costs? Which of the above two methods is best and why?

SUMMARY OUTPUT

<i>Regression Statistics</i>	
Multiple R	0.990735
R Square	0.981557
Adjusted R Sq	0.978922
Standard Error	319.8159
Observations	9

ANOVA

	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>Signif F</i>
Regression	1	38104025	38104025	372.53823	2.5E-07
Residual	7	715975.3	102282.2		
Total	8	38820000			

	<i>Coefficients</i>	<i>Std Error</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>
Intercept	3500.591	424.5971	8.244501	7.517E-05	2496.578	4504.603
X Variable	3.223236	0.166996	19.30125	2.498E-07	2.828353	3.61812

Question 3

Cost/Volume/Profit

T'Cruz has a Selling Price of \$45 a unit and its Variable cost is \$23 a unit. Fixed Costs total \$140,000.

- Calculate the breakeven in units AND dollars
- How many units must be sold to make a \$35,000 profit
- At the above (b) sales level, what is the DOL AND Margin of Safety %
- Xavier has sales this year of \$700,000 and profits of \$30,000. It has a DOL of 3.5. What is its Contribution Margin? If sales for next year are expected to be \$900,000, What will the profit be?