

## IV

APC company has been using the same process to manufacture a protein solution since 1946. The process takes 72 hours in stable production. The Engineers developed an "improved" technique projected to reduce process time to 54 hr. Implementation in the plant gave this data:

a) Calculate a learning % for this new process. Use an average of at least three determinations.

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Test lot number	Time (hr.)
1	440
2	190
3	160
4	140
5	130
6	120
7	112
8	105

b) Is there some reason to disregard some of the data? Explain.

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c) Ignoring data that doesn't fit in, calculate the theoretical number of lots that will be made before the process is back to 72 hours per lot

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d) Will this process change eventually be worthwhile? Explain.

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Total= 75