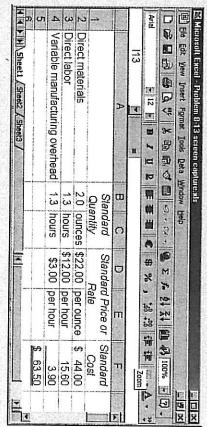
PROBLEM 8-13A Basic Variance Analysis (LO2, LO3, LO4)
Riley Labs produces various chemical compounds for industrial use. One compound, called Lundor, is prepared using an elaborate distilling process. The company has developed standard costs for one unit of Lundor as follows:

(1a) Materials price variance: \$16,100 F (2a) Labor efficiency

variance: \$3,600 U

CHECK FIGURE





During November, the following activity was recorded by the company relative to production of Lundor:

- Materials purchased, 11,500 ounces at a cost of \$236,900.
- Ò, material remained in ending inventory There was no beginning inventory of materials: however, at the end of the month, 3,000 ounces of
- 0 each worked an average of 160 hours at an average rate of \$11.90 per hour. The company employs 36 lab technicians to work on the production of Lundor. During November,
- d manufacturing overhead costs during November totaled \$16,416. Variable manufacturing overhead is assigned to Lundor on the basis of direct labor-hours. Variable
- During November, 4,200 good units of Lundor were produced.

The company's management is anxious to determine the efficiency of the Lundor production activities.

Required:

- For direct materials used in the production of Lundor:
- Compute the price and quantity variances.
- purchase contract. Would you recommend that the company sign the contract? Explain. The materials were purchased from a new supplier who is anxious to enter into a long-term
- 2. For direct labor employed in the production of Lundor:
- Compute the rate and efficiency variances.
- technicians and 15 assistants. During November, the company experimented with fewer senior In the past, the 36 technicians employed in the production of Lundor consisted of 21 senior

mix be continued? Explain. technicians and more assistants in order to save costs. Would you recommend that the new labor

Compute the variable overhead spending and efficiency variances. What relation can you see between this efficiency variance and the labor efficiency variance?

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