## Exercise 10-12 (30 minutes)

1.	Number of Standard Total stan Standard Total stan	2 × × × <u>\$7</u>	0,000 <u>&lt; 0.3*</u> 6,000 <u>&lt; \$12</u> 2,000				
	*18 mir						
	Actual dir Standard Total varia	3,600 <u>2,000</u> 1,600					
2.	. Actual Hours of Input, at the Actual Rate (AH × AR)		Actual Hours of Input, at the Standard Rate (AH × SR)		Standard Hours Allowed for Output, at the Standard Rate (SH × SR)		
			5,750 hours ×		6,000	6,000 hours* ×	
	\$73,600		= \$69,000		φ12.0 = :	= \$72,000	
	Aate Va \$4,60		riance, Efficiency Va <u>)0 U</u> 50 500 Total Variance, \$1.600 U		ariance, ) F	↑ -	

\*20,000 units  $\times$  0.3 hours per unit = 6,000 hours

Alternative Solution:

Labor rate variance = AH (AR - SR) 5,750 hours (\$12.80 per hour\* - \$12.00 per hour) = \$4,600 U \*\$73,600 ÷ 5,750 hours = \$12.80 per hour Labor efficiency variance = SR (AH - SH) \$12.00 per hour (5,750 hours - 6,000 hours) = \$3,000 F

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## Exercise 10-12 (continued)

3.	Actual Hours of Input, at the Actual Rate (AH × AR)		Actual Hours of Input, at the Standard Rate (AH × SR)		Standard Hours Allowed for Output, at the Standard Rate (SH × SR)	
	\$21,850		5,750 hours × \$4.00 per hour = \$23,000		6,000 hours × \$4.00 per hour = \$24,000	
		Spending \ \$1,15		/ariance, Efficiency 50 F \$1,00 Total Variance, \$2,150 F		

Alternative Solution:

Variable overhead spending variance = AH (AR – SR) 5,750 hours (\$3.80 per hour\* – \$4.00 per hour) = \$1,150 F

\*\$21,850 ÷ 5,750 hours = \$3.80 per hour

Variable overhead efficiency variance = SR (AH – SH) \$4.00 per hour (5,750 hours - 6,000 hours) = \$1,000 F