## Exercise 10-10 (20 minutes)

1.	Actual Quantity of Input, at Actual Price (AQ × AP)		Actual Quantity of Input, at Standard Price (AQ × SP)		Standard Quantity Allowed for Output, at Standard Price (SQ × SP)		
	20,000 pounds ×		,	20,000 pounds $ imes$		18,400 pounds* ×	
	\$2.35 per pound			\$2.50 per pound		\$2.50 per pound	
	= \$47,000		= \$50,000		= \$46,000		
	$\uparrow$		$\uparrow$		1		
	Price Varia		iance,	Quantity Variance,			
	\$3,000		0 F	F \$4,00			
	Total Variance, \$1,000 U						

\*4,000 units  $\times$  4.6 pounds per unit = 18,400 pounds

Alternatively:

Materials price variance = AQ (AP - SP) 20,000 pounds (\$2.35 per pound - \$2.50 per pound) = \$3,000 F Materials quantity variance = SP (AQ - SQ) \$2.50 per pound (20,000 pounds - 18,400 pounds) = \$4,000 U

## Exercise 10-10 (continued)



\*4,000 units  $\times$  0.2 hours per unit = 800 hours

Alternatively:

Labor rate variance = AH (AR - SR) 750 hours (\$13.90 per hour\* - \$12.00 per hour) = \$1,425 U \*10,425 ÷ 750 hours = \$13.90 per hour

Labor efficiency variance = SR (AH - SH) \$12.00 per hour (750 hours - 800 hours) = \$600 F

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