Problem 4-20 (45 minutes)

FIFO method

1. Equivalent Units of Production

		Materia	als Conversio	n			
	To complete beginning work in process: Materials: 20,000 units x (100% – 100%) Conversion: 20,000 units x (100% – 75%) Units started and completed during the period (180,000 units started – 40,000 units in end-		0 5,00	0			
	ing inventory)	140,00	0 140,00	0			
	Ending work in process: Materials: 40,000 units x 100% complete Conversion: 40,000 units x 25% complete Equivalent units of production	<u>40,00</u> <u>180,00</u>	10,00				
2.	Cost per Equivalent Unit		. .				
	Cost added during the period (a) \$33		<i>Conversion</i> \$238,700 155,000 \$1.54				
3. See the next page.							
 Cost Reconciliation Costs to be accounted for: Cost of beginning work in process inventory							
	(\$334,800 + \$238,700) Total cost to be accounted for		<u>573,500</u> \$623,500				
	Costs accounted for as follows: Cost of ending work in process inventory Costs of units transferred out		\$ 89,800 533,700				

Total cost accounted for

\$623,500

Problem 4-20 (continued)

3.	. Costs of Ending Work in Process Inventory and Units Transferred Out					
		Materials	Conversion	Total		
	Ending work in process inventory:					
	Equivalent units of production	40,000	10,000			
	Cost per equivalent unit	\$1.86	\$1.54			
	Cost of ending work in process inventory	\$74,400	\$15,400	<u>\$89,800</u>		
	Units transferred out:					
	Cost in beginning work in process inventory	\$25,200	\$24,800	\$50,000		
	Cost to complete the units in beginning work in process inventor	γ:				
	Equivalent units of production required to complete the be-					
	ginning inventory	0	5,000			
	Cost per equivalent unit	\$1.86	\$1.54			
	Cost to complete the units in beginning inventory	0	\$7,700	\$7,700		
	Cost of units started and completed this period:					
	Units started and completed this period	140,000	140,000			
	Cost per equivalent unit	\$1.86	\$1.54			
	Cost of units started and completed this period	\$260,400	\$215,600	<u>\$476,000</u>		
	Cost of units transferred out			<u>\$533,700</u>		

a Work in Process Inventory and Units Transferred Out 3. - حان

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