Day F01 (Principles of Accounting):

Chapter # 6

1. (LO 2) Englehart Company has the following inventory, purchases, and sales data for the month of March.

\$ 800 Inventory: March 1 200 units @ \$4.00 2,250 Purchases: March 10 500 units @ \$4.50 400 units @ \$4.75 1.900 March 20 March 30 300 units @ \$5.00 1,500 Sales: March 15 500 units

Sales: March 15 500 units March 25 400 units

The physical inventory count on March 31 shows 500 units on hand.

Instructions

Under a **periodic inventory system**, determine the cost of inventory on hand at March 31 and the cost of goods sold for March under (a) FIFO, (b) LIFO, and (c) average-cost. (For average-cost, carry cost per unit to three decimal places.)

Cost of goods available for sale:

Particulars	Date	Details	Amount		
Beg. Inventory	March 1	200 units @\$4.00	\$800		
Purchase	March 10	500 units @\$4.50	2,250		
	March 20	400 units @\$4.75	1,900		
	March 30	300 units @\$5.00	1,500		
Total units: 1,400 units Total Amount= \$6,450					

FIFO

Ending Inventory or inventory on hand

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Date	units	Unit cost	Total cost
March 30	300	\$5.00	\$1,500
March 20	200	4.75	950
Total units: 500 units	Total Amount: \$2,45	0	

COGS (Cost of goods sold): Cost of goods available for sale – Ending inventory COGS = \$6,450 - \$2,450 = \$4,000

LIFO

Ending Inventory or inventory on hand

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Date	Units	Unit Cost	Total Cost		
March 1	200	\$4.00	\$800		
March 10	300	4.50	1,350		
Total Units: 500 Total Amount: \$2.150					

COGS (Cost of goods sold): Cost of goods available for sale – Ending inventory

COGS = \$6,450 - \$2,150 = \$4,300

Average Cost:

Cost of goods available for sale: \$6,450

Total available units: 1,400

Average unit cost = Cost of goods available for sale/ Total available units

Average unit Cost = \$6,450/1,400 = \$4.607

Cost of Ending Inventory =500 units @\$4.607 = \$2,303.500

COGS = Cost of goods available for sale – Ending inventory=\$6,450-\$2,303.500=\$4,146.500