

a general ledger account. Assume Apple's subsidiary records for 2020 contain the following data:

1. Net delivered cost of materials purchased was \$49,300.
2. The cost of direct materials used in production was \$44,400.
3. Direct labor totaled \$17,500.
4. Manufacturing overhead consists of the following:

Indirect materials	\$ 5,000
Indirect labor	4,000
Various costs	62,500
Year-end adjustments	<u>\$36,159*</u>
	<u>\$107,659</u>

*This is composed of \$4,000 for manufacturing supplies and \$32,159 for depreciation on factory machinery.

Based on this information, assume Apple records the following entries for 2020:

1. Acquisition of materials

Materials inventory	49,300	
Accounts payable		49,300
<i>To record the delivered cost of materials purchased.</i>		

2. Use of direct materials and indirect materials

Work-in-process inventory	44,400	
Manufacturing overhead	5,000	
Materials inventory		49,400
<i>To record the transfer of direct materials (\$44,400) to the work-in-process inventory and the transfer of indirect materials (\$5,000) to manufacturing overhead.</i>		

3. Incurrence of factory payroll

Work-in-process inventory	17,500	
Manufacturing overhead	4,000	
Wages payable		21,500
<i>To record the factory payroll as direct labor (\$17,500) to the work-in-process inventory and as indirect labor (\$4,000) to manufacturing overhead.</i>		

4. Incurrence of manufacturing overhead costs during year

Manufacturing overhead	62,500	
Accounts payable or cash		62,500
<i>To record various factory costs incurred during the year as manufacturing overhead.</i>		

5. Recognition of certain manufacturing overhead costs with year-end adjustments

Manufacturing overhead	36,159	
Manufacturing supplies		4,000
Accumulated depreciation—factory machinery		32,159
<i>To record cost of supplies used for and depreciation on factory machinery.</i>		



DATA ANALYTICS, DATA VISUALIZATION, AND EXCEL ACTIVITIES

Data Analytics, Data Visualization, and Excel Activities are available in myBusinessCourse. These assignments develop Excel, Tableau, and Data Analytics skills, which will enhance students' career readiness. These exercises are assignable and auto graded by MBC. For an overview of data analytics, see the appendix at the end of this book.

EXERCISES—SET A



LO1

E2-1A. Cost Classification Classify each of the following costs relative to the cost object “client project” for a CPA firm that specializes in audit:

	Product or Period	Variable, Fixed, or Mixed	Direct or Indirect
Staff auditor salaries			
Receptionist salary			
Depreciation on staff auditor laptop computers			
Health insurance for administrative staff			
Subscription to cloud backup service for project files			
Office lease expense			
Travel to client location			



LO1

E2-2A. Cost Classification Classify each of the following costs relative to the cost object “customer” for a clothing retailer:

	Product or Period	Variable, Fixed, or Mixed	Direct or Indirect
Salesperson wages			
Store manager salary			
Depreciation on furniture and fixtures			
Cost of merchandise			
Online advertising			
Cost of discount coupon			
Store lease expense			



LO2, 3

E2-3A. Product Cost Flows Complete the following T-accounts:

Materials Inventory	
320	
?	?
	18,120
250	

Finished Goods Inventory	
1,500	
?	
1,200	

Wages Payable	
	9,000
	300

Work-in-Process Inventory	
1,000	?
?	
9,000	
?	
500	

Manufacturing Overhead	
50	?
?	
18,000	
4,500	
	0

Cost of Goods Sold	
	?

EXERCISES—SET B

E2-1B. Cost Classification Classify each of the following costs relative to the cost object “patient” for a medical office:

LO1

	Product or Period	Variable, Fixed, or Mixed	Direct or Indirect
Nurse salaries			
Receptionist salary			
Depreciation on exam room computers			
Health insurance for administrative staff			
Subscription to patient management software service			
Office lease expense			
Gloves, swabs, and other medical supplies			

E2-2B. Cost Classification Classify each of the following costs relative to the cost object “customer” for a new car dealer:

LO1

	Product or Period	Variable, Fixed, or Mixed	Direct or Indirect
Salesperson wages			
Dealership manager salary			
Depreciation on showroom furniture			
Cost of automobiles			
Online advertising			
Cost of new car prep			
Showroom lease expense			

E2-3B. Product Cost Flows Complete the following T-accounts:

LO2, 3

Materials Inventory <div> <div>?</div> <div>20,000</div> <div>300</div> </div> <div> <div>?</div> <div>19,900</div> </div>		Finished Goods Inventory <div> <div>5,000</div> <div>?</div> <div>3,000</div> </div> <div></div>	
Wages Payable <div> <div></div> <div>15,000</div> <div>?</div> </div> <div></div>		Work-in-Process Inventory <div> <div>2,000</div> <div>?</div> <div>?</div> <div>32,000</div> <div>5,000</div> </div> <div>?</div>	
Manufacturing Overhead <div> <div>300</div> <div>?</div> <div>27,000</div> <div>3,900</div> </div> <div></div>		Cost of Goods Sold <div> <div>65,900</div> </div> <div></div>	
<div>0</div>			

E2-4B. Prime Cost and Conversion Cost Benton Engineering Services Company incurred the following during the year:

LO2

SERVICE AND MERCHANDISING

Direct labor	\$ 60,000
Overhead	110,000
Selling expenses	56,000
Administrative expenses	95,000



Calculate prime cost and conversion cost for Benton Engineering Services Company.

ANSWERS TO SELF-STUDY QUESTIONS:

1. c 2. d 3. c 4. a 5. c 6. c 7. c 8. c

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Solution 10.1

Budgeted returns	750
Actual returns	800
Returns processed variance	<u><u>[(50) F]</u></u>

	Actual Results for 800 Returns Processed	Budget Based on 750 Returns	Variances
Revenue	\$80,000	\$75,000	\$ 5,000 F
Variable costs	36,000	37,500	[1,500 F]
Fixed costs	<u>12,500</u>	<u>12,000</u>	<u>500 U</u>
Net income	<u><u>\$31,500</u></u>	<u><u>\$25,500</u></u>	<u><u>[\$ 6,000 F]</u></u>

Solution 10.2

	Actual Results	Flexible Budget	Variance
Sales units	<u>100,000</u>	<u>100,000</u>	
Sales dollars	\$190,000	\$200,000	[\$10,000 U]
Variable costs	125,000	120,000	5,000 U
Fixed costs	<u>50,000</u>	<u>45,000</u>	<u>5,000 U</u>
Operating income	<u><u>\$ 15,000</u></u>	<u><u>\$ 35,000</u></u>	<u><u>[\$20,000 U]</u></u>

Solution 10.3

PACCAR Trucks segment, Parts segment, and Financial Services segment.

Solution 10.4

Revenue	\$600,000
Traceable departmental expenses:	
Direct materials	\$30,000
Direct labor	25,000
Other traceable expenses	<u>40,000</u>
Department contribution	\$505,000
Common expenses.	<u>155,000</u>
Departmental operating income	<u><u>\$350,000</u></u>