Equations for Income Statements and Cost Concepts

MC = DM + DL + MO

CC = DL + MO

COGS = Beg Fin Inv + COGM - End Fin Inv

PC = DM + DL

I = RM + WIP + FG

COGM = RM + DL + MO + BegWIP - EndWIP

Manufacturing costs = direct materials plus direct labor plus manufacturing overhead

Prime costs = direct materials plus direct labor

Conversion costs = direct labor plus manufacturing overhead

Total inventory = raw materials plus work in process plus finished goods

Income statement:

Sales

Less costs of goods sold = gross margin

Less operating expenses = net operating income

Costs of goods sold in a merchandising company

Beginning merchandising inventory

Add: purchases

Less: ending merchandising inventory = cost of goods sold

Costs of goods sold in a manufacturing company

Beginning finished goods inventory

Add: cost of goods manufactured

Less: ending finished goods inventory = cost of goods sold

Cost of goods manufactured

Direct materials:

Beginning raw materials inventory

Add purchases of raw materials

Less: raw materials end inventory = raw materials used in production

Add direct labor

Add manufacturing labor = manufacturing costs

Add beginning work in process

Less: ending work in process = cost of goods manufactured

Product costs = raw materials direct labor and manufacturing overhead
Period costs = selling and administrative