

Key Concept 2.9

#### inventory system Perpetual

with purchases of inventory as they are made and credited with the cost of goods sale. The cost of goods sold is the balance in the cost of sales account at the end sold, which is transferred (debited) to a cost of sales account at the time of the Using this system, the inventory account is perpetually updated, being debited of the period.

## Inventory costing methods

is not the case - one can of beans looks very much like another and they will all have the this type of product is a unique and separate stock item. For most products, however, this two most commonly-used methods of stock costing are First in, First identify (e.g. the cost of a particular car or piece of machinery may be known). In a sense consider the question of inventory costing (i.e. exactly what cost will be transferred from sales when a sale is made). The cost of the item sold may be easy to same barcode. If, as often happens, the items in stock were purchased at different prices, the question arises: which price should be used as the cost of sale when some of these Before going on to show the accounting entries to deal with inventory, we will briefly out (FIFO) and Weighted average. Inventory to Cost of items are sold? The

in stock at that time to get an average unit cost and the amount transferred to the Cost of average system the total cost of inventory at any time is divided by the number of units the inventory that was first purchased and the cost of sales to be transferred out of the inventory account will be the cost of those 'oldest' units in stock. Under the weighted method, it is assumed that the inventory sold at any time will be sales account will be the number of units sold  $\times$  average cost. Under the FIFO

### Example 2.11

had 26 cans of this paint in stock. Of these, three had been purchased on 15 July at a cost One of its stock items is a 2-litre can of Scottish Paint interior gloss enamel. On 1 August it Grinnings is a hardware store selling a variety of tools, materials and building equipment. of \$18.90 each, five had been purchased on 22 July, also at \$18.90 each and 18 on 29 July at a cost of \$21.40 each.

On 1 August the firm sold three cans of this paint. What would the cost of sale and the value of the remaining inventory be on both the FIFO and weighted average bases?

## COST OF SALE - FIFO

15 July. Cost of sales is therefore  $3 \times 18.90 = \$56.70$ . The value of the remaining inventory is On the first in, first out assumption, the cans sold would be taken to be those purchased on  $(5 \times 18.90) + (18 \times 21.40) = $479.70.$ 

# COST OF SALE - WEIGHTED AVERAGE

At 1 August the total value of the inventory is  $(8 \times 18.90) + (18 \times 21.40) = $536.40$ . Dividing this cans (3  $\times$  20.63) of \$61.89 and a remaining inventory after the sale (536.40 - 61.89) of \$474.51. by 26 gives an average unit cost of \$20.63, which would provide a cost of sale for those three

Which method should be used? In the short term, where stock prices are rising - as was expense and any short-term differences will, in the end, cancel each other out. The choice of inventory costing methods will come down to which seems easier and therefore cheaper the case in our example and is usually true of most manufactured products - the weighted average will result in a higher cost of sales and hence a lower profit and lower income tax liability. If stock prices are falling, as may happen with some agricultural or horticultural fluctuations in world markets, FIFO might give a higher short-term cost of sales. In the long run, of course, it makes no difference: the same total cost will be allocated as an products on a seasonal basis and with products such as petrol, which responds to to apply, considering the nature of the firm's products and its recording system.

# Accounting entries for the perpetual inventory system

When goods are sold by a firm using the perpetual inventory system, there are essentially three elements that need recording:

- purchase of inventory
  - proceeds of the sale
  - cost of the sale.

The recording of inventory purchases will be as follows:

Debit	Cash at bank (for a cash purchase) or Account payable (for a credit purchase)	pulcilased	ecording of the sale of the inventory will be as follows:
Inventory	Cash at bank (for a cash purch	יייין נוופ כטפר טו נוופ טסטמא אמוכיומאפר	cording of the sale of the inv
nenii	Credit		The re-

Cash at bank (for a cash sale) or Account receivable (for a credit sale) with the proceeds of the sale

The recording of the cost of sale will be as follows:

Cost of sales (expense)	Inventory	with the cost of the goods sold
Debit	Credit	