

Solution:

(1)

If they do not use LCM method with LIFO, then we see that the June 1 inventory valuation will be as follows:

- 100 units @ \$10, and
- 20 units @ \$12

Thus, the June 1 inventory valuation will be given by \$1,240.

(2)

If they use the LCM method with LIFO, then the stock that is valued at \$13 should be valued at \$12. However, all of this stock is sold out and the left stock is all below \$12, which means that there is no change required for the June 1 inventory valuation.

(3)

If they do not use LCM method with FIFO, then we see that the June 1 inventory valuation will be as follows:

- 100 units @ \$13, and
- 20 units @ \$12

Thus, the June 1 inventory valuation will be given by \$1,540.

(4)

If they use the LCM method with FIFO, then the stock that is valued at \$13 should be valued at \$12.

Thus, the valuation becomes \$1,440, since all stock at \$13 will be written down to \$12.