

**11. Correct. The answer is true.** Let  $P_Q$  be the price of a product and  $Q$  be the quantity of output produced as a function of  $I$  used. Then the total revenue is  $TR = P_Q * Q$  and  $MRP_I = \partial TR / \partial I = P_Q * MP$ . In general,  $MRP = MR * MP$ . In this case  $MR = P_Q$  since the producer is a price taker on the output market.