NUMERICALS FOR PRACTICE: BREAK EVEN ANALYSIS

(The answers are given in blue)

Q1) Given: Price = Rs 8, AVC= Rs 6 and TFC = Rs 50,000. Find break even quantity.

- a) What happens to break even quantity if price increases to Rs 10
- b) What happens to break even quantity if AVC increases to Rs 7

ANS:

Break even quantity= TFC/P-AVC

- = 50000/8-6
- = 50000/2
- = 25000 units
 - a) Price increases to Rs 10

Break even quantity= TFC/P-AVC

- = 50000/10-6
- =50000/4

=12500 units. Thus an increase in price will reduce break even quantity

b) AVC increases to Rs 7

Break even quantity= TFC/P-AVC

- =50000/8-7
- =50000/1

=50000 units. An increase in AVC will increase break even quantity

- Q2) For a firm ABC Ltd the price of the product is Rs 50, TFC is Rs 10000 and AVC is Rs 10
 - a) Calculate break even output for the firm
 - b) How does break even quantity change is price falls to Rs 35?
 - c) How does break even quantity change if TFC decreases to 8000
 - d) How does break even quantity change if AVC rises to Rs 30

ANS:

- a) Break even quantity= TFC/P-AVC
- = 10000/50-10
- =250 units
 - b) Break even quantity= TFC/P-AVC
- = 10000/35-10
- =400 units
 - c) Break even quantity= TFC/P-AVC
- = 8000/50-10
- **=200** units
 - d) Break even quantity= TFC/P-AVC
- =10000/50-30
- =500 units