

Introduction to Microeconomics

Elasticity - 03

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Total Expenditure

- Total Expenditure (TE) = Price X Quantity bought
If you buy 5 apples at a price of 10tk per unit then
 $TE = 10 \times 5 = 50 \text{ BDT}$
- According to the Law of Demand - if price goes up, Quantity demand fall. If price goes up, what happens to the TE?
→ The shift in TE depends on elasticity of the good.

Suppose the demand is elastic, meaning, if the price increases by 1% then the quantity demand will fall by **more** than 1%.

Assuming, $P = 100$, $Q = 100$; $TE = 10000$

$P' = 110$ (10% increase), $Q' = 80$ (20% decrease); $TE = 110 \times 80 = 8800$. Thus, $TE \downarrow$ if $\uparrow P$ when we are dealing with elastic good.

Suppose the demand is inelastic, meaning, if the price increases by 1% then the quantity demand will fall by **less** than 1%.

Assuming, $P = 100$, $Q = 100$; $TE = 1000$ BDT

$P' = 120$ (20% increase), $Q' = 90$ (10% decrease); $TE = 120 \times 90 = 10800$ BDT. Thus, $TE \uparrow$ if $\uparrow P$ when we are dealing with inelastic good.

Total Revenue

Total Revenue (TR): The amount received by the seller of the goods.

$$TR = \text{Price} \times \text{Quantity}$$

- Shift in TR depends on elasticity

Company A is planning to increase their revenue by increasing their price. The good they sell has elastic demand. The current price per unit is 100 BDT and Quantity demand for their good is 100 units. Current total revenue is 1000 BDT. Will it be a good idea to increase their price?

Graphs

