Focusing on normal goods, we can state the following:

If YED > 1, then the $\%\Delta Qd$ is greater than the $\%\Delta Y$, thus **demand is income elastic**, as a rise in income leads to a proportionally greater rise in the Qd of that good/service. Luxury goods are considered income elastic.

If 0 < YED < 1, then the % ΔQd is smaller than the % ΔY , thus **demand is income** inelastic, as a rise in income leads to a proportionally smaller rise in Qd. Basic/staple goods are considered income inelastic.

If YED = 0, then Qd is **not affected** by a change in income.

If YED = 1, then the percentage change of Qd will be **equal** to the percentage change of Y.

Applications of YED

- ⇒ Firms would like to know whether the demand for their good is highly income elastic or moderately income inelastic help plan future investments.
- ⇒ If an economy is group and incomes are increasing a 2 then firms producing highly income elastic goods may have to invest in expanding their capacity to meet the increasing demand.

Price elasticity of supply (PES) –

The responsiveness of quantity supplied over a change in price.

Formula

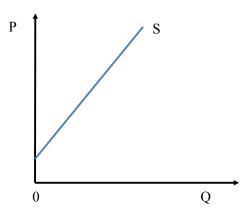
Measured by the percentage change in quantity supplied over the percentage change in price:

$$PES = \frac{\% \Delta Qs}{\% \Delta P}$$

 $Percentage\ change = \frac{new\ value-old\ value}{old\ value}$

Ranges of PES

1. If PES > 1, then a $\%\Delta P$ will lead to a proportionally larger $\%\Delta Qs$. This means that **supply is price elastic**.



2. If PES = ∞, then supply is perfectly price elastic: A small change in price will lead to a infinitely larger change in os.



3. If 0 < PES < 1, then supply is price inelastic. This means that a % ΔP leads to a proportionally smaller % ΔQs .

