

# Supported preparation: Equilibrium, elasticity and intervention

International Baccalaureate · IB Diploma · Economics · HL

## Scope and prerequisites

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IB economics first assessment 2022. Three supervised news commentaries cover microeconomics, macroeconomics and the global economy through distinct key concepts. School checks source recency and commentary requirements against the full guide.

Mapped preparation outcomes: ib\_economics\_hl.2.1, ib\_economics\_hl.2.2. Read the matching native lesson first. Actual approved choices, evidence and final learner work remain separate.

## Source vocabulary

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tax incidence ; price elasticity .

## Explanation and worked method

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Equilibrium joins quantity demanded and supplied at one price. An own-price change moves along a curve; a changed determinant shifts it. Elasticity uses proportional changes, not the slope alone. A tax creates a wedge between consumer and producer prices; incidence depends on relative responsiveness.

### Tax burden in the worked case

Original price: 10

Consumer price after tax: 12

Producer receipt after tax: 9

Tax wedge =  $12 - 9 = 3$



Compared with the original price, buyers bear more.

Task: price rises from 10 to 12 currency units and quantity demanded falls from 100 to 90 units. Use the original-value percentage convention to compute PED and interpret

revenue.

Percentage price change  $= (12 - 10) / 10 \times 100\% = 20\%$ . Percentage quantity change  $= (90 - 100) / 100 \times 100\% = -10\%$ . PED  $= \% \Delta Q_d / \% \Delta P = -10\% / 20\% = -0.5$ , dimensionless. Revenue initially  $= 10 \times 100 = 1,000$  units; finally  $= 12 \times 90 = 1,080$  units. Demand is inelastic over this change under this convention.

## Independent transfer

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Advertising changes while price rises and sales fall. Can the observed ratio identify PED on one demand curve?

Attempt independently before reading the model.

## Checked original model

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Advertising can shift demand, so the two observations may not lie on the same curve. The percentage ratio is arithmetic but cannot isolate the own-price response without other determinants controlled or accounted for. Explain the movement/shift distinction.

These are authored formative expectations, not official IB descriptors. Accept other justified arguments with evidence and material limits.

## Source and task holds

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Scope authority: coverage.yaml and its hashed source files. Detailed full-guide criteria and school selections remain held exactly as recorded; this supplement teaches the supported method. No practice-bank item, reserved diagnostic or student evidence has been republished.