2.4 Government intervention in markets

Name: _____ Class: _____ Date: _____ **Total: 16 marks**

KEY WORDS maximum price • minimum price • indirect tax • subsidy • tax incidence • shortage

Objective

Build the skills to answer exam questions on **government intervention** : maximum and minimum prices, **indirect taxes** , **subsidies** , and their effects on stakeholders.

You must be able to:

- explain the reasons for government intervention in markets
- explain the effects of maximum and minimum prices on markets and stakeholders
- explain the effects of indirect taxes and subsidies, and how PED and PES decide who pays

exercises.lol exercises.com.cn

1 Key knowledge and worked examples

■ Government intervention

Reasons to intervene: to raise revenue; to support firms (e.g. farmers) or low-income households; to change production or consumption (less tobacco, more renewable energy); to correct market failure; to promote equity.

tool	**how it works**	**effects**
maximum price (price ceiling, below equilibrium)	e.g. rent controls, food price caps	**shortage**; queues, black markets, lower quality; some buyers gain, sellers lose
minimum price (price floor, above equilibrium)	e.g. farm price support, minimum wage	**surplus**; government may buy and store the surplus (cost to taxpayers); in labour markets, possible unemployment
indirect tax (specific: $ per unit; *ad valorem*: a %) \lvert shifts supply **up/left** by the tax \rvert price rises, quantity falls; tax revenue for the government \lvert		
subsidy	a payment to firms per unit; shifts supply **down/right**	price falls, quantity rises; costs the government

Tax incidence: who pays the tax. When demand is **inelastic** (or supply elastic), **consumers** pay most of it; when demand is **elastic** (or supply inelastic), **producers** pay most.

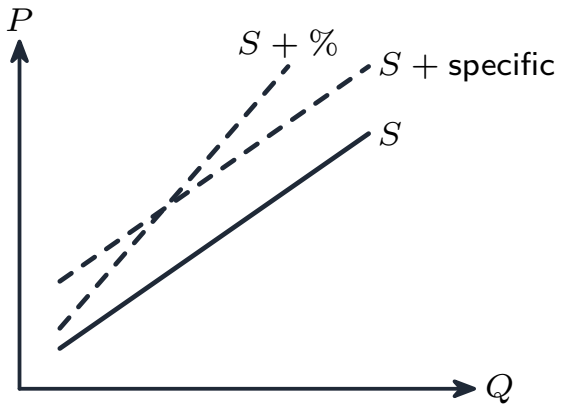
Other tools: direct provision (state schools, roads); **command and control** regulation and legislation (bans, limits); consumer nudges.

Stakeholders to cover: consumers, producers, workers, the government (revenue or spending), and society (welfare loss).

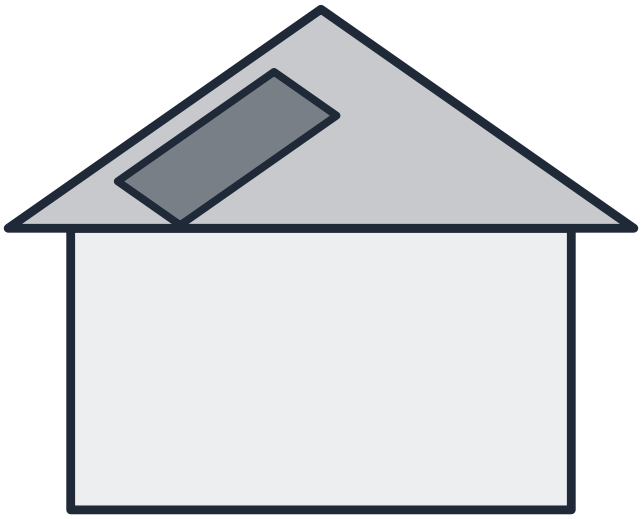
Answer shapes: diagram with the control or tax clearly marked → effects on price and quantity → effects on each stakeholder → evaluate (who gains, who loses, efficiency vs equity).

2 Practice

2.1 Distinguish between a specific tax and an *ad valorem* tax. [2]



2.2 State **two** reasons why a government might subsidize a product. [2]



exercises.lol exercises.com.cn

2.3 A city sets a maximum rent below the equilibrium rent. Using a diagram, explain **two** consequences. [4]



[[drawlines:4]]

3 Exam-style questions

3.1 A government introduces a minimum price for wheat above the equilibrium price to support farmers.



(a) Identify **one** group that gains and **one** that loses. [2]

(b) Using a diagram, explain the consequences of the minimum price for the market and for the government. [6]

[[drawlines:6]]

exercises.lol exercises.com.cn

Solutions

Marking: **M1** a correct method, **A1** the correct answer, **B1** an independent mark.

Each answer shows the steps, then the **result**.

2.1

specific tax: a fixed amount per unit, e.g. \$1 per litre; supply shifts up in parallel; ad valorem: a percentage of the price, e.g. 20% VAT; the gap grows at higher prices

2.2

any two: to lower prices for consumers, e.g. basic food; to support producers' incomes, e.g. farmers; to increase output of goods with positive externalities, e.g. solar energy, vaccines; to help a new industry compete

2.3

diagram with a maximum price below equilibrium and the shortage Q_s to Q_d shown; quantity demanded rises and quantity supplied falls, giving a shortage of flats; any two consequences: long waiting lists / queues; illegal "key money" or black markets; landlords spend less on repairs, so quality falls; some flats move to other uses, so supply falls further in the long run

3.1

(a) gains: wheat farmers (higher price and income); loses: consumers (pay more) / taxpayers

(b) diagram: minimum price above equilibrium, surplus between Q_d and Q_s; higher price lowers quantity demanded and raises quantity supplied; to keep the price up, the government must buy the surplus, at a cost of minimum price $\times$ surplus; storage costs, waste, or selling abroad cheaply (dumping), which hurts foreign farmers; resources are over-allocated to wheat: allocative inefficiency / welfare loss