

Class 9 Social Science – Chapter 9

NCERT Textbook Solutions

The Price Puzzle: What Drives the Market

Book: *Understanding Society: India and Beyond – Grade 9, Part 1*

Session: 2026–27

Chapter 9 introduces **demand, supply, market equilibrium, substitute and complementary goods, and the role of government in markets.**

Below are the solutions to the **textbook Questions and Activities**, following the chapter's concepts and terminology.

 **Q1. An increase in income always leads to a rise in demand for goods. Defend or refute, giving reasons.**

 **Answer:**

The statement should be **refuted**.

An increase in income does not necessarily increase demand for **every** good.

For **normal goods**, higher income generally increases demand because consumers have greater purchasing power.

However, for some **inferior goods**, demand may decrease when income rises. Consumers may switch from cheaper alternatives to better-quality products.

For example, a person whose income increases may move from a low-cost product to a higher-quality alternative.

Therefore, income is an important factor affecting demand, but an increase in income does **not always lead to an increase in demand for all goods**.



Q2. If petrol prices double, what happens to:

a. Demand for diesel cars

Demand for diesel cars is likely to **increase**, as some consumers may consider diesel vehicles a substitute for petrol vehicles.

b. Demand for electric cars

Demand for electric cars is likely to **increase**, as consumers may shift towards alternatives to petrol-powered vehicles.

c. Demand for car accessories

Demand for accessories specifically associated with petrol cars may **decrease** if consumers shift away from petrol vehicles.

d. Demand for public transport

Demand for public transport is likely to **increase**, as travelling in petrol-powered private vehicles becomes more expensive.

★ Key concept:

When the price of one good changes, it can affect the demand for **related goods**, especially **substitutes and complementary goods**.



Q3. A farmer installs drip irrigation that reduces water use by 40% and increases yield by 30%. How does this affect:

a. Cost of production

The initial installation requires investment, but after installation the farmer uses less water and may require fewer resources per unit of output.

Because yield also increases, the **cost per unit of output can decrease**.

b. Willingness to supply at different prices

With improved productivity and lower cost per unit, the farmer can supply a **larger quantity at different market prices**.

c. Overall market supply if many farmers adopt this technology

If many farmers adopt drip irrigation, overall production can increase and the **market supply curve shifts to the right**.

This means:

-  Quantity supplied increases
 -  Equilibrium price may fall
 -  Equilibrium quantity may increase
-

Q4. During online festival sales, prices of many products are very low. Explain using demand and supply.

Answer:

During festival sales, sellers may reduce prices to:

-  Attract more customers
-  Clear accumulated inventory
-  Increase sales volume
-  Compete with other sellers

When the price is reduced, **quantity demanded generally increases** according to the Law of Demand.

Consumers benefit because they can purchase goods at lower prices.

Sellers can also benefit because higher sales may:

- Clear old stock.
- Increase total sales revenue.

- Attract new customers.
- Increase sales of related products.

However, a price deliberately fixed below the equilibrium price without an increase in supply can result in **excess demand or shortage**.



Q5. Suppose the government sets a maximum sale price for an essential vaccine below the market-driven price. What is likely to happen?



Correct Answer:

b. Shortage ✓

When the government fixes a **maximum price below the equilibrium price**, it is a **binding price ceiling**.

At the lower price:



Quantity demanded increases



Quantity supplied decreases

Therefore:

Quantity demanded > Quantity supplied

This creates a **shortage** of the vaccine.



Q6. The government levies higher taxes on products such as tobacco and alcohol to promote healthier choices. Can

you find other goods where price controls have been set? What are the reasons?

✓ Answer:

Governments may regulate the prices of certain essential goods and services.

Examples include:

- 💊 **Essential medicines** – to keep important medicines affordable.
- ⚡ **Electricity and public utilities** – to protect consumers where services are essential.
- 🚌 **Public transport** – to keep transportation affordable.
- 🍲 **Essential food items** – to protect vulnerable consumers.

Reasons for price controls:

- 👤 Protect consumers.
 - 💰 Keep essential goods affordable.
 - ⚖️ Promote social welfare.
 - 🛡️ Prevent unfair pricing.
 - 🏠 Ensure access to essential goods and services.
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Q7. Can excessive government regulation hurt markets? Explain with suitable examples.

✓ Answer:

Yes. Excessive government regulation can hurt markets.

Some regulation is necessary to protect consumers, workers and public welfare. However, excessive regulation may:

- 💰 **Reduce incentives for producers**

If prices are kept artificially low, producers may have less incentive to produce.

Create shortages

A price ceiling below equilibrium can cause quantity demanded to exceed quantity supplied.

Increase compliance costs

Too many licences, permits and complicated procedures can make it difficult and expensive for businesses to operate.

Discourage innovation

Heavy regulation can reduce incentives for businesses to invest in new technologies and production methods.

Therefore, government regulation should aim to **correct market problems without unnecessarily restricting productive economic activity.**

Q8. Different prices of guava are given.

The textbook asks students to:

- Decide how much guava they would buy at each price.
- Ask three friends and complete the table.
- Draw individual and total demand graphs.

Sample Answer

Price of Guava	You	Friend 1	Friend 2	Friend 3	Total
₹100/kg	1 kg	0 kg	1 kg	2 kg	4 kg
₹80/kg	2 kg	1 kg	2 kg	3 kg	8 kg
₹50/kg	3 kg	2 kg	3 kg	4 kg	12 kg
₹20/kg	5 kg	4 kg	5 kg	6 kg	20 kg

This is a **sample response** because the actual quantities depend on the students surveyed.

Observation:

As the price falls:

Quantity demanded generally increases.

This demonstrates the **Law of Demand**.



Q9. Visit the nearby vegetable market.

a. Who decides the prices of different vegetables?

Prices are mainly determined by the **interaction of demand and supply**.

Sellers also consider:

- Wholesale prices
- Transportation costs
- Availability
- Weather
- Consumer demand
- Competition

Therefore, there is usually **no single person who decides the market price**.

b. Why are prices sometimes too high and sometimes too low?

Vegetable prices change because demand and supply keep changing.

Prices may rise when:



Supply falls



Bad weather damages crops



Transportation is disrupted



Production is low



Demand increases

Prices may fall when:

-  Supply increases
 -  There is a large harvest
 -  Demand decreases
-

c. Why may tomato prices fall from morning to evening?

Tomatoes are **perishable goods**.

If sellers still have tomatoes near the end of the day, they may reduce prices to encourage customers to buy the remaining stock rather than risk spoilage and losses.

Thus, prices can fall as sellers try to clear their inventory before the market closes.



Q10. Categorise the following into substitute and complementary goods.

● Substitute Goods

Goods that can satisfy a similar want and can replace each other.

-  Laptop and computer
-  Air conditioner and cooler
-  Apple and banana

● Complementary Goods

Goods that are generally used together.

-  Movie ticket and popcorn
-  Eraser and pencil
-  Notebook and pen
-  Mobile and earphones

★ Final classification:

Substitute Goods

Complementary
Goods

Laptop & computer	Movie ticket & popcorn
Air conditioner & cooler	Eraser & pencil
Apple & banana	Notebook & pen
	Mobile & earphones



Q11. Fig. 9.8 shows the demand curve DD' and supply curve SS'.

a. What does point E represent?

Point E represents the market equilibrium.

At this point:

Quantity Demanded = Quantity Supplied

b. What is the equilibrium price and equilibrium quantity at point E?

According to the figure:



Equilibrium Price = ₹30



Equilibrium Quantity = 300 kg

c. What do points A and B indicate? What does the gap represent?

Point A lies on the demand curve and represents the quantity demanded at the higher price.

Point B lies on the supply curve and represents the quantity supplied at that price.

At the higher price:

Quantity Supplied > Quantity Demanded

Therefore, the gap between A and B represents:

 **Excess Supply / Surplus**

d. What do points F and C indicate? What does the gap represent?

Point F on DD' represents quantity demanded at the lower price.

Point C on SS' represents quantity supplied at the lower price.

At the lower price:

Quantity Demanded > Quantity Supplied

Therefore, the gap between C and F represents:

 **Excess Demand / Shortage**

e. If the price stays at the lower dashed line, what could happen next in a free market?

At the lower price there is a **shortage** because demand is greater than supply.

Buyers compete for the limited quantity available.

This creates upward pressure on the price.

Therefore, the price would tend to **rise towards the equilibrium price**, where quantity demanded and quantity supplied become equal.



Chapter 9 Quick Revision

Law of Demand

Price $\uparrow$ $\rightarrow$ Quantity Demanded $\downarrow$

Price $\downarrow$ $\rightarrow$ Quantity Demanded $\uparrow$

Law of Supply

Price $\uparrow$ $\rightarrow$ Quantity Supplied $\uparrow$

Price $\downarrow$ $\rightarrow$ Quantity Supplied $\downarrow$

Market Equilibrium

Quantity Demanded = Quantity Supplied

Surplus

Supply $>$ Demand

Shortage

Demand $>$ Supply

Substitute Goods

One good can replace another.

Example: AC $\leftrightarrow$ Cooler

Complementary Goods

Goods are generally used together.

Example: Notebook + Pen

Government Intervention

Government may intervene to:

- Protect consumers
- Correct market failures
- Provide public goods
- Regulate prices where necessary
- Promote social welfare

Important Concepts from Chapter 9

Concept	Meaning
 Demand	Quantity consumers are willing and able to buy
 Supply	Quantity producers are willing and able to sell
 Equilibrium	Point where demand equals supply
 Surplus	Quantity supplied exceeds quantity demanded
 Shortage	Quantity demanded exceeds quantity supplied
 Substitute Goods	Goods that can replace each other
 Complementary Goods	Goods generally used together
 Price Ceiling	Maximum price set by government
 Demand Curve	Shows relationship between price and quantity demanded
 Supply Curve	Shows relationship between price and quantity supplied