

A horizontal banner with a light blue background. A dark blue arrow points to the right, containing the word "Economics" in white. The arrow is bordered by a thin light blue line on its left and right sides.

Economics

A horizontal banner with a light blue background. A dark blue arrow points to the right, containing the words "Monetary Policy" in white. The arrow is bordered by a thin light blue line on its left and right sides.

Monetary Policy



Exam Focus

- Roles of central banks
- Monetary policy tools
- Neutral interest rate
- Policy limitations
- Relationship between fiscal and monetary policy

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Roles of a Central Bank

- Formulation and application of monetary policy
- Monopoly supplier of currency
- Banker to central government and banking system
- Lender of last resort
- Regulator of payment system
- Supervisor of banking system

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Monetary Policy

- *Monetary policy* refers to the activities of central banks aimed at controlling quantity of money in the economy
- Main objective is **price stability**
- Other objectives may include the following:
 - Maintaining full employment, output, and confidence in the system

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Monetary Policy Tools

- **Policy rate:** interest rate central banks charge banks for borrowed reserves (U.S. sets a target for Fed funds rate, rate that banks charge each other for short-term loans)
- Increasing interbank lending rate decreases bank lending and the money supply

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Monetary Policy Tools

Open market operations: *most often used*

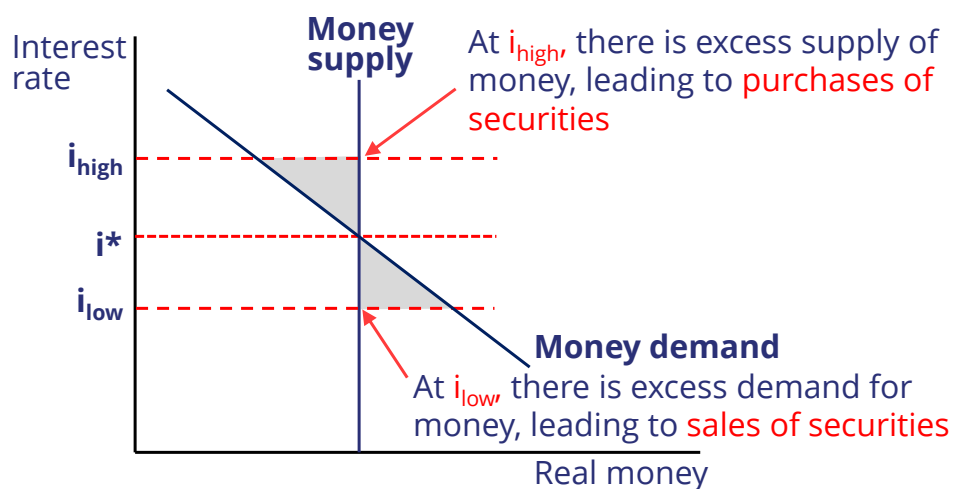
- Central bank buys or sells government securities to increase or decrease money supply
- In recent years, central banks have purchased other debt securities by creating money, referred to as *quantitative easing*

Required reserve ratio: *seldom changed*

- Lower reserve ratio increases funds banks have to make loans

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Equilibrium in the Money Market



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Monetary Policy: **Example**

Monetary policy is *least likely* to include:

- A. setting an inflation rate target.
- B. changing an official interest rate.
- C. enacting a transfer payment program.

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The Transmission Mechanism

Monetary policy affects the economy through **four interrelated channels**: lending rates, asset prices, expectations, and exchange rates.

When a central bank **buys** securities

- Bank reserves increase
- Interbank lending rates decrease
- Short-term and long-term lending rates decrease
- Businesses and consumers increase purchases
- Domestic currency depreciates, exports increase

Overall, aggregate demand increases, increasing real GDP, employment, and inflation

Transmission Mechanism: Example 1

Which is the *most* accurate statement regarding central banks and monetary policy?

- A. Central bank activities are typically intended to maintain price stability.
- B. Monetary policies work through the economy via four independent channels.
- C. Commercial and interbank interest rates move inversely to official interest rates.

Central bank activities are typically intended to maintain price stability. This statement is not correct because the transmission mechanism of monetary policy are not

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Transmission Mechanism: Example 2

An increase in a central bank's policy rate might be expected to reduce inflationary pressures by:

- A. reducing consumer demand.
- B. reducing the foreign exchange value of the currency.
- C. driving up asset prices leading to an increase in personal sector wealth.

If an increase in the central bank's policy rate is successfully transmitted through the money markets to other parts of the financial sector, the demand for credit might decline as the rate of interest on loans and other credit facilities declines. This decline in credit demand should, all other things being equal and among other effects, lead to a reduction in upward pressure on the price level.

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The Neutral Interest Rate

Neutral interest rate = trend growth rate of real GDP + target inflation rate

Policy rate > neutral rate: contractionary

Policy rate < neutral rate: expansionary

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Neutral Interest Rate: **Example**

If an economy's trend GDP growth rate is 3 percent and its central bank has a 2 percent inflation target, which policy rate is *most consistent* with an expansionary monetary policy?

- A. 4 percent.
- B. 5 percent.
- C. 6 percent.

The neutral rate of interest, which in this example is percent, is considered to be that rate of interest that neither spurs on nor slows down the underlying economy. As such, when they are the neutral rate, monetary policy is expansionary.

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Limitations of Monetary Policy

- Inflation caused by supply-side shocks (cost push)
- Issues with transmission mechanism
 - Market participants expectations
 - Bond market vigilantes
 - Liquidity trap

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Relationship: Fiscal and Monetary Policy

Policy	Expansionary Fiscal	Contractionary Fiscal
Expansionary monetary	Highly expansionary. Growing private and public sectors.	Lower interest rates increases private sector. Contractionary fiscal policy reduces public sector.
Contractionary monetary	Increase in government spending and interest rates. Public sector growing proportion of national income.	Decreasing output and increasing interest rates. Both public and private sectors reduced.

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Fiscal & Monetary Interaction: **Example**

If fiscal policy is easy and monetary policy tight, then:

- A. interest rates would tend to fall, reinforcing the fiscal policy stance.
- B. the government sector would tend to shrink as a proportion of total GDP.
- C. the government sector would tend to expand as a proportion of total GDP.

With a tight monetary policy, real interest rates should _____ and private sector activity, which could be at least partially offset by an _____ in _____ via the loosening of fiscal policy. The net effect, however, would be an expansion in the size of the _____ sector relative to the _____ sector.

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Solutions

Monetary Policy: Example

Monetary policy is *least likely* to include:

- A. setting an inflation rate target.
- B. changing an official interest rate.
- ☒ C. enacting a transfer payment program.

Transfer payment programs represent fiscal, not monetary, policy.

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Transmission Mechanism: Example 1

Which is the *most* accurate statement regarding central banks and monetary policy?

- ☒ A. Central bank activities are typically intended to maintain price stability.
- B. Monetary policies work through the economy via four independent channels.
- C. Commercial and interbank interest rates move inversely to official interest rates.

Central bank activities are typically intended to maintain price stability.
B is not correct because the transmission channels of monetary policy are not independent.

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Transmission Mechanism: Example 2

An increase in a central bank's policy rate might be expected to reduce inflationary pressures by:

- ☒ A. reducing consumer demand.
- ☐ B. reducing the foreign exchange value of the currency.
- ☐ C. driving up asset prices leading to an increase in personal sector wealth.

If an increase in the central bank's policy rate is successfully transmitted through the money markets to other parts of the financial sector, consumer demand might decline as the rate of interest on mortgages and other credit rises. This decline in consumer demand should, all other things being equal and among other effects, lead to a reduction in upward pressure on consumer prices.

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Neutral Interest Rate: Example

If an economy's trend GDP growth rate is 3 percent and its central bank has a 2 percent inflation target, which policy rate is *most consistent* with an expansionary monetary policy?

- ☒ A. 4 percent.
- ☐ B. 5 percent.
- ☐ C. 6 percent.

The neutral rate of interest, which in this example is 5 percent, is considered to be that rate of interest that neither spurs on nor slows down the underlying economy. As such, when they are below the neutral rate, monetary policy is expansionary.

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Fiscal & Monetary Interaction: **Example**

If fiscal policy is easy and monetary policy tight, then:

- A. interest rates would tend to fall, reinforcing the fiscal policy stance.
- B. the government sector would tend to shrink as a proportion of total GDP.
- C.** the government sector would tend to expand as a proportion of total GDP.

With a tight monetary policy, real interest rates should rise and reduce private sector activity, which could be at least partially offset by an expansion in government activity via the loosening of fiscal policy. The net effect, however, would be an expansion in the size of the public sector relative to the private sector.

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