

Goals for this session

- Gain a good sense of why we care about money supply
- Understand a few of the 'tools' of monetary policy.

Pre-exercise: Capitol Hill Baby Sitting Co-op

(space for notes)

Note:

There are a few different 'tools' the federal reserve has to control the money supply. We are going to discuss two of them today: **Reserve Requirements**, and **Open Market Operations**. Other types we won't discuss today but may cover next time: Quantitative easing, discount rate, paying interest on reserves).

Problems

1. Changing Reserve Requirements

- (a) Draw a bank's 'balance sheet', and place the following liabilities and assets on it in the correct column:
 - Reserves (\$300)
 - Loans (\$1800)
 - Deposits (\$2000)
 - Owners' equity (\$100)
- (b) Money Multiplier
 - Draw the balance sheets of a few banks to illuminate how the money multiplier works on an initial \$100 deposit.

- What is the formula for the money multiplier?
 - How is it similar/different to the aggregate expenditure multiplier?
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- What crucial assumption does this multiplier rely on?
- (c) The Federal Reserve decides to lower the reserve requirement. This means banks can now lend out (more/less) money, and makes money supply (rise/fall). This will shift AD (out/in).

2. Open Market Operations

- (a) What is an ‘open market operation’?
- (b) How do ‘open market operations’ affect the money supply?
- (c) How might these operations directly affect the interest rate on bonds? (we will discuss interest rates more over the next 2 weeks of class)

Definitions we didn’t cover today but you shouldn’t forget about

- Three properties of money - (Medium of Exchange, Store of Value, Unit of Account)
- M1 vs. M2 definitions of money - (M1=currency+demand deposits+other checking deposits... M2 = M1 + savings/loans deposits + money market mutual funds. M2 is a broader definition of money supply)
- Structure of Federal Reserve System and the FOMC (See class notes/book)
- Purpose of the Federal Reserve (Monetary policy, supervision and regulation, banker’s bank, lender of last resort... see your class notes/book)
- Dual Mandate of Federal Reserve (Stable prices, and full employment. This is the goal.)
- Stress Testing (simulation to determine if a bank’s owner’s equity is high enough to deal with various financial crisis scenarios.)
- Volker Rule (Prohibits banks from speculating against their customer’s assets)