

Expansionary Monetary Policy

Open Market Operations—assume Fed buys \$10,000 of securities (assume R.R.R.=.1)

Bank 1 (before the Fed buy)

Assets		Liabilities
R.R. \$ 2,000		Dep. \$20,000
E.R. \$18,000		
T.R. \$20,000		

Bank 1 (after the Fed buy)

Assets		Liabilities
R.R. \$3,000		Dep. \$30,000
E.R. \$27,000		
T.R. \$30,000		

Bank reserves increase from \$20,000 to \$30,000

Reserve Requirement Ratio—lowering of R.R.R.

Bank 1 (at .1 R.R.R.)

Assets		Liabilities
R.R. \$2,000		Dep. \$20,000
E.R. \$18,000		
T.R. \$20,000		

Bank 2 (at .1 R.R.R.)

Assets		Liabilities
R.R. \$1,800		Dep. \$18,000
E.R. \$16,200		
T.R. \$18,000		

At R.R.R. = .1 bank reserves total \$38,000
 (\$20k + \$18k)

Bank 1 (at .05 R.R.R.)

Assets		Liabilities
R.R. \$1,000		Dep. \$20,000
E.R. \$19,000		
T.R. \$20,000		

Bank 2 (at .05 R.R.R.)

Assets		Liabilities
R.R. \$ 950		Dep. \$19,000
E.R. \$18,050		
T.R. \$19,000		

At R.R.R. = .05 bank reserves total \$39,000
 (\$20k + \$19k)

Discount Rate—lowering of (assuming R.R.R. is .1)

Bank 1 (before the lowering)

Assets		Liabilities
R.R. \$2,000		Dep. \$20,000
E.R. \$19,000		Fed. Loan \$ 1,000
T.R. \$21,000		

Bank 1 (after the lowering)

Assets		Liabilities
R.R. \$ 2,000		Dep. \$20,000
E.R. \$20,000		Fed. Loan \$ 2,000
T.R. \$22,000		

Bank reserves increase from \$21,000 to \$22,000

E.R. + Fed Loan →

E.R. + Fed Loan →

E.R. + Fed Loan →

E.R. + Fed Loan →

Contractionary Monetary Policy

Open Market Operations—assume Fed sells \$10,000 of securities (assume R.R.R.=.1)

Bank 1 (before the Fed selling)

Assets		Liabilities
R.R. \$ 2,000		Dep. \$20,000
E.R. \$18,000		
T.R. \$20,000		

Bank 1 (after the Fed selling)

Assets		Liabilities
R.R. \$1,000		Dep. \$10,000
E.R. \$9,000		
T.R. \$10,000		

Bank reserves decrease from \$20,000 to \$10,000

Reserve Requirement Ratio—raising of R.R.R.

Bank 1 (at .1 R.R.R.)

Assets		Liabilities
R.R. \$2,000		Dep. \$20,000
E.R. \$18,000		
T.R. \$20,000		

Bank 2 (at .1 R.R.R.)

Assets		Liabilities
R.R. \$1,800		Dep. \$18,000
E.R. \$16,200		
T.R. \$18,000		

At R.R.R. = .1 bank reserves total \$38,000
 (\$20k + \$18k)

Bank 1 (at .2 R.R.R.)

Assets		Liabilities
R.R. \$4,000		Dep. \$20,000
E.R. \$16,000		
T.R. \$20,000		

Bank 2 (at .2 R.R.R.)

Assets		Liabilities
R.R. \$ 3,200		Dep. \$16,000
E.R. \$12,800		
T.R. \$16,000		

At R.R.R. = .2 bank reserves total \$36,000
 (\$20k + \$16k)

Discount Rate—raising of (assuming R.R.R. is .1)

Bank 1 (before the raising)

Assets		Liabilities
R.R. \$2,000		Dep. \$20,000
E.R. \$19,000		Fed. Loan \$ 1,000
T.R. \$21,000		

Bank 1 (after the raising)

Assets		Liabilities
R.R. \$ 2,000		Dep. \$20,000
E.R. \$18,500		Fed. Loan \$ 500
T.R. \$20,500		

Bank reserves decrease from \$21,000 to \$20,500