

The Money Multiplier

Start with Gold (Coins) only = \$100. Then assume:

- 1. Public wants to deposit all coins and hold only banknotes
- 2. Banks want to keep only 20% reserves

Step	Transaction (D=Deposit) (L=Loan)	Banks have		Public has		M1
		Assets	Liab.	Assets	Liab.	
0.		Gold	Loans	Gold	Notes	Loans
1.	D \$100	100	-100	100		100
2a	L 80%=\$80	20	80	80		100
2b	D \$80	100	80	100	-80	180
3a	L 80%=\$64	36	144	180	-80	180
3b	D \$64	100	144	180	-144	244
4a	L 80%=\$51	49	193	244	-144	244
4b	D \$51	100	193	244	-193	295
5a	L 80%=\$41	59	234	295	-193	295
5b	D \$41	100	234	295	-234	336
6a	L 80%=\$33	67	301	336	-234	336
6b	D \$33	100	301	336	-301	369
...						
∞		100	400	500	400	500