

10% - 0% = 10%

10% - 10% = 0%

10% - 20% = -10%

# Real Interest Rate =

# Nominal Interest Rate – Inflation Rate

## If inflation is 0% during the life of the loan



## If inflation is 10% during the life of the loan

## If inflation is 20% during the life of the loan

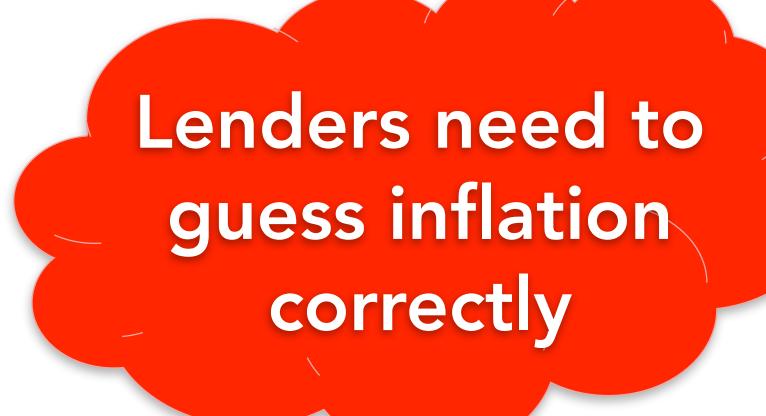
The interest rate written in a contract between lender and borrower

Consider it written "in stone" it can't be changed during the life of the loan

#### The lender earns a positive (10%)real interest

#### The lender earns zero real interest

#### The lender earns a negative (-10%) real interest







All lenders have to do is charge the correct Nominal rate...

# The lender earns a negative (-10%) real interest

Real Interest Rate = 10% - 20% = -10%

Nominal Interest Rate – Inflation Rate



If inflation is 20% during the life of the loan

Lenders need to guess inflation correctly

Investment: Purchase of Capital Goods