## We do not calculate the CPI correctly: Substitution Bias

In the year when the basket was built, apples were cheap and thus most consumers bought them in large quantity:10 apples

## CPI uses old quantity with new price



## \$0.30/each

#### With time, apples become expensive and consumers substitute apples for a cheaper alternative

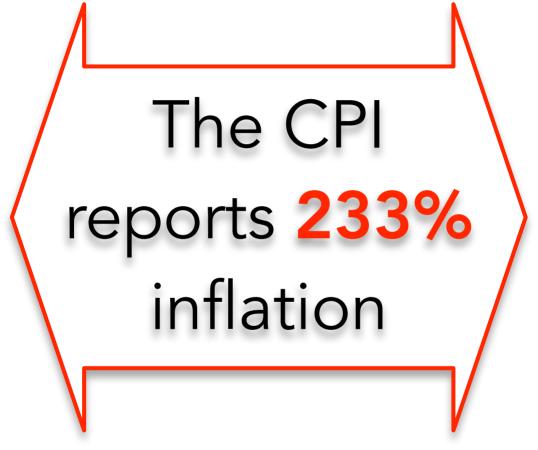


## \$1/each

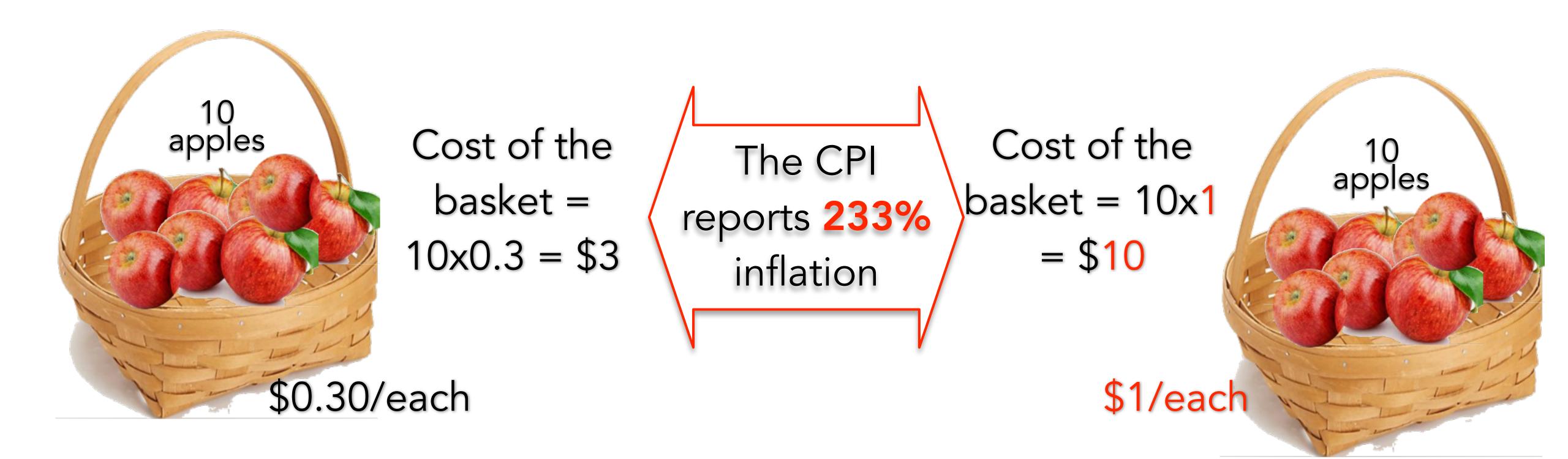
#### Cost of the basket = 10x0.3 = \$3

```
Cost of the
basket = 10x1
```

= \$10



#### We do not calculate the CPI correctly: Substitution Bias



# To avoid a drop in real salary, the nominal salary must increase by inflation