Example: What is total amount of money in an account where \$800 is invested at an interest rate 0.06025% compounded annually for 2 years? I = prt = (800)(0.0625)(1) = 50800 + 50 = 850I = prt = (850)(0.0625)(1) = 53.125850 + 53.125 = 903.1258903.13

Example: What is the total amount of money in an account where \$5000 is invested at an interest rate of 5% compounded annually after 3 years?

$$T = prt = (5000)(0.05)(1) = 250$$

 $5000 + 250 = 5250$
 $T = prt = (5250)(0.05)(1) = 262.5$
 $5250 + 262.50 = 5512.50$
 $T = prt = (5512.50)(0.05)(1) = 275.625$
 $5512.50 + 275.625 = 5788.125$

Example: Find the total amount in each account to the nearest cent if the interest is compounded annually.

\$480 ab 5% for 3 years I = prt = (480)(0.05)(1) = 24 480 + 24 = 504 I = prt = (504)(0.05)(1) = 25.20 504 + 25.20 = 529.20 I = prt = (529.20)(0.05)(1) = 26.46 529.20 + 26.46 = 1555.66