

(1) 1. In the Spring of 1990, the New York Times reported each of the articles below.

a. Reported in the New York Times, April 21, 1990.

A fool and his money
are soon parted!
How wise to wait 200 years
to part with it while the
interest is compounded!



Benjamin Franklin bequeathed some money to the cities of Boston and Philadelphia with the condition that it could not be spent for 200 years. He died in 1790 and the money became available in 1990.

The amount that Franklin's gift had become was approximately equivalent to the result of putting \$2550 into a bank account drawing 4% annual compound interest for 200 years.

Old Ben was pretty smart! Determine the amount of money his bequest had become in 1990. (Since, banks set a limit to the length of time you can compound the interest of an investment.)

Amount = _____

(4) b. Reported in the New York Times, May 27, 1990 (one month later). Complete the boxes.

213 Years After Loan, Uncle Sam is Dunned

By LISA BELKIN

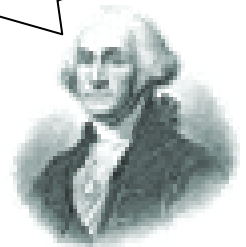
SAN ANTONIO, May 26 – More than 200 years ago, a wealthy Pennsylvania merchant named Jacob DeHaven lent \$450,000 to the Continental Congress to rescue the troops at Valley Forge. That loan was apparently never repaid.

So Mr. DeHaven's descendents are taking the United States Government to court to collect what they believe they are owed. The total: in today's dollars if the interest is compounded daily at 6 percent, the going rate at the time. If compounded yearly the bill is only .

Family is Flexible

The descendents say that they might even accept a heartfelt thank you or perhaps a DeHaven statue. But they also note that interest is accumulating at a second.

I cannot tell a lie.
Jacob told me personally it
was a GIFT. Yeah, that's it.



Assume the interest has been compounded yearly.

Hint:

First, find $[Total\ Amount\ in\ 214\ Years] - [Total\ Amount\ in\ 213\ Years] = \$$ /year

Then convert this amount to dollars of interest per second = \$ /sec

