

## Compound Interest Word Problem

Vasu borrowed Rs. 18,000 for  $2\frac{1}{2}$  years at 10% per annum, compounded annually. How much compound interest would he pay at the end of  $2\frac{1}{2}$  years?

$$A = P \left(1 + \frac{R}{100}\right)^n = 18000 \left(1 + \frac{10}{100}\right)^{2\frac{1}{2}} \quad \times$$

2 years

$$= 18000 \left(1 + \frac{10}{100}\right)^2$$

$$\frac{100}{100} + \frac{10}{100} = \frac{110}{100}$$

$$= 18000 \times \frac{110}{100} \times \frac{110}{100}$$

$$= 18000 \times \frac{11}{10} \times \frac{11}{10}$$

# Compound Interest Word Problems With Answers

**Marcel A. Müller**



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coefficients  $c_i$  0 1 for  $0 \leq i \leq n-1$  the feedback function which is addition mod 2 the xor function computing the new state value  
 $s_n$  using the coefficients and the state values as  $s_n$

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ing them with the output of an identical lfsr

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two or more of its previous states taps an lfsr of length  $m$  consists of  $m$  stages numbered  $0 \leq i \leq m-1$  each capable of storing one  
bit and a clock controlling data exchange

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registers with a small number of xor gates used for random number generation counters error checking and correction  
advantages very little hardware high speed operation example 4 bit lfsr  $q_4 \oplus q_3 \oplus q_2 \oplus q_1$

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what is a shift register it is a type of electronic logic circuit that stores and transmits data by moving one bit in a particular  
direction of a register at every step a basic type of computer memory

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web lfsr stands for linear feedback shift register and it is a design that is useful inside of fpgas lfsrs are simple to synthesize meaning that they take relatively few resources and can be run at very high clock rates inside of an fpga there are many applications that benefit from using an lfsr including counters test pattern generators

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web oct 28 2019 the algorithm couldn't be entirely linear because it would get stuck it would produce nothing but zeros forevermore once it encountered an input sequence of all zeros so technically a lfsr is an nearly always linear feedback shift register it's linear for  $2^n - 2$  inputs and nonlinear for 2 special inputs a lfsr is more general

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web a linear feedback shift register lfsr is a shift register in which some of its outputs are connected to the input through some logic gates typically an xor a wide variety of bit patterns can be generated inexpensively including pseudo random sequences can be used as a noise generator

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web in computing a linear feedback shift register lfsr is a shift register whose input bit is a linear function of its previous state the most commonly used linear function of single bits is exclusive or xor thus an lfsr is most often a shift register whose input bit is driven by the xor of some bits of the overall shift register value

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