

1. How long will it take \$80 to amount to \$100 at 5%? at 10%? at 8%?
2. January 1, 1890, \$250 was put at interest. April 13, 1891, it had amounted to \$269.25. What was the rate of interest?
3. If I put \$600 at interest July 20, 1891, at 5%, at what time did it amount to \$650?
4. In what time will any sum double itself at simple interest at 6%? at 4%? at 7%?
5. At what rate will any sum double itself in 20 years at simple interest?
6. If a man's quarterly income is \$450, what is his principal, bearing interest at 5%?
7. A house which cost \$4500 rents for \$380 a year. If the insurance, taxes, and repairs amount to \$150 yearly, what rate of interest does it pay?
8. I borrowed, September 1, 1893, \$490 at  $4\frac{1}{2}\%$  interest. It remained on interest until it amounted to \$460. When was the debt paid?
9. A man placed a certain sum of money on interest at 5% when his son was born. On the son's 18th birthday it had amounted at simple interest to \$1240. What sum was put on interest?
10. Find the date at which the sum of \$500 put at simple interest at 6% January 20, 1893, amounted to \$540.
11. When was \$800 put at interest at 5%, which January 1, 1894, amounted to \$900?
12. Mr. Brown owns stock which pays 7% annually. He receives quarterly \$43.75. What sum is invested?
13. How much must I put at interest at 5% to have a monthly income of \$60? How much to have \$3 a day?
14. A man invests \$3840 so that it yields him at simple interest a monthly income of \$12.80. What is the rate of interest?
15. A man pays \$450 a year rent for a house worth \$6500. Will he gain or lose, and how much, in 10 years, if he borrows money at 5% to buy the house, and the average expense for insurance, taxes, and repairs is  $2\frac{1}{2}\%$  of the cost of the house?