Miscellaneous.

1. What principal gives $40 interest per month at 5%?

2. In what time will $6400 at 4½% yield $25 interest? In what time will it amount to $10,000?

3. I paid $450 rent for a house which I afterwards bought for $5600. I gave $3000 cash, and a 4½% mortgage for the balance. Supposing money to be worth 4½%, and supposing repairs, insurance, and taxes to be 1¾% of cost, how much per year did I gain or lose by buying the house?

4. In what time will a principal of $850 at 4½% amount to $1000? In what time at 6%?

5. If a man borrows $75, and pays the lender $80 in a month's time to cancel the debt, what rate of interest does he pay?

6. A note of $800 is dated Sept. 25, 1872. Indorsements: Jan. 1, 1873, $100; April 1, $100; July 1, $100. What was due Sept. 25, 1873, at 7% interest? (Merchant's rule.)

7. I lent a friend $640, which he kept 1 yr. 3 mo. Some time afterwards I borrowed of him $230. How long must I keep it to balance the favor?

8. A farm is offered me for $4500 cash or $5000 payable in 2 years. If money is worth 5%, which offer is the cheaper for me?

9. What may I offer for a block of houses which pays $4860 rent per year, so that I may receive 7½% on the investment?

10. A note of $1680, dated Sept. 15, 1883, was indorsed as follows: Feb. 9, 1884, $300; May 1, 1884, $50; Oct. 20, 1884, $200. What amount was due Jan. 1, 1887, with interest at 6%?

11. Which is the better investment, and how much: $12,000 yielding $240 quarterly, or $18,600 yielding $1100 a year?

12. A man at his death left his son, who was 15 yr. 4 mo. 12 da. old, $2000, to be paid on his 21st birthday, with interest at 6%, compounded semi-annually. What should he receive?

13. A note of $940, with annual interest at 5%, is due 3 yr. 6 mo. after date. If no interest is paid, what will be due at maturity of note? Give the amount due at simple interest for the given time. Give the amount due at compound interest.