Solve.

1. A total of \$5000 is deposited into two simple interest accounts. On one account the annual simple interest rate is 8%, while on the second account the annual simple interest rate is 12%. How much should be invested in each account so that the total annual interest earned is \$520?

8%:\$2000 12%:\$3000

3. An investment of \$4000 is made at an annual simple interest rate of 12%. How much additional money must be invested at an annual simple interest rate of 8% so that the total interest earned is 10% of the

total investment? \$ 4000 more at

82

5. A total of \$4000 is invested into two simple interest accounts. On one account the annual simple interest rate is 12%, while on the second account the annual simple interest rate is 8%. How much should be invested in each account so that the interest earned by each account is the same?

12%:\$1600

- 2. An investment club invested a part of \$10,000 in a 9.5% annual simple interest account and the remainder in a 14% annual simple interest account. The amount of interest earned for one year was \$1085. How much was invested in each account?
- 4. An investment of \$3500 is made at an annual simple interest rate of 9%. How much additional money must be invested at an annual simple interest rate of 13% so that the total interest earned is 11% of the total investment?
- 6. An investment advisor deposited a total of \$6000 into two money market funds. One fund earns 14% annual simple interest, while a second tax-free fund earns 7% annual simple interest. How much must be invested in each fund so that the interest earned by each is the same?
- 7. An accountant deposited an amount of money into a 12% annual simple interest account. Another deposit, \$2000 more than the first, was placed in a 9.8% annual simple interest account. The total interest earned on both investments for one year was \$741. How much money was deposited in the 12% account?

\$ 2500 at

12%

8. A deposit was made into a 6% annual simple interest savings account. Another deposit, \$3500 less than the first, was placed in a 10% annual simple interest bond market account. The total interest earned on both accounts for one year was \$450. How much money was deposited in the 6% account?

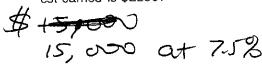
Solve.

9. An investment of \$12,000 is made into a 10.5% simple interest account. How much additional money must be deposited into an 8% simple interest account so that the total interest earned on both accounts is 9.5% of the total investment?

\$ 8000 make at 8%

10. To provide for retirement income, an engineer purchases a \$10,000 bond. The simple interest rate on the bond is 8.5%. How much money must be invested in additional bonds which have an interest rate of 9.25% so that the total interest earned each year is \$2700?

11. A stock broker's client has \$25,000 to invest. The broker recommends that part of the \$25,000 be placed in 7.5% tax-free municipal bonds and the remainder in 11.25% commercial bonds. How much should be invested in each type of bond so that the total interest earned is \$2250?



\$250,000 to support research assistants in science. The university deposited some of the money in a 12% simple interest account and the remainder in a 10.5% simple interest account. How much should be deposited in each so that the total interest earned is \$28,875?

13. The manager of a trust decided to invest 60% of a client's account in stocks which earn 6% simple interest. The remainder was invested in a tax shelter which earns 8% simple interest. The annual interest earned from the investments was \$1632. What was the total amount invested?

to tal \$24,000

- 14. The portfolio manager for a corporation invested 75% of the company's investment account in 12.5% short term certificates. The remainder was invested in 10% corporate bonds. The annual interest earned from the two investments was \$47,500. What was the total amount invested?
- 15. A financial manager recommended an investment plan in which 20% of a client's cash be placed in a 7% simple interest account, 40% be placed in 10% high grade bonds, and the remainder in a 13% high-risk investment. The total interest earned from the investments would be \$5300. What is the total amount to be invested?

\$ 50,000

16. An investment company deposited 70% of its investment capital in a 9.8% simple interest account. The remainder was deposited in a 11.5% simple interest account. The total interest earned from the investments was \$46,395. How much was invested in each account?