

Mathematician \_\_\_\_\_ date \_\_\_\_\_ per. \_\_\_\_\_

## 6.7 Practice AB

An account earns simple interest. (a) Find the interest earned. (b) Find the balance of the account.

---

1. \$200 at 3% for 5 years                      2. \$750 at 8% for 2 years                      3. \$500 at 12% for 6 months

Find the annual interest rate.

4.  $I = \$18$ ,  $P = \$150$ ,  $t = 6$  years                      5.  $I = \$164.50$ ,  $P = \$940$ ,  $t = 2.5$  years

Find the amount of time.

6.  $I = \$72$ ,  $P = \$600$ ,  $r = 4\%$                       7.  $I = \$174$ ,  $P = \$1450$ ,  $r = 8\%$

8. You deposit \$350 in a savings account. The account earns 2.5% simple interest per year. What is the balance after 2 years?

9. You put money in two different accounts for one year each. The total simple interest for the two accounts is \$140. You earn 6% interest on the first account, in which you deposited \$1000. You deposited \$800 in the second account. What is the annual interest rate for the second account?

10. You deposit \$2000 in a savings account earning 5% simple interest. How long will it take for the balance of the account to be \$3800?



11. You deposit \$1200 in an account earning 8% simple interest. a. What is the account balance after 1 year?

- b. At the end of the first year, you deposit the balance of the account in a CD (certificate of deposit) earning 8% simple interest. What is the account balance after another year?

Find the amount of time.

12.  $I = \$9.90$ ,  $P = \$360$ ,  $r = 5.5\%$

13.  $I = \$2064$ ,  $P = \$10,000$ ,  $r = 6.88\%$

Find the amount paid for the loan.

14. \$20,000 at 7.5% for 10 years

15. \$6000 at 12% for 2.5 years

16. You deposit \$1200 in an account. a. The account earns 2.7% simple interest rate. What is the balance of the account after 3 months?



17. You purchase a new guitar and take out a loan for \$450. You have 18 equal monthly payments of \$28 each. What is the simple interest rate for the loan? Round to the nearest tenth of a percent, if necessary.
- 

**Find the amount paid for the loan.**

18. \$1000 at 8% for 5 years

19. \$3500 at 10% for 2 years