## He that goes a borrowing goes a sorrowing: Benjamin Franklin, American Statesman

1. Interpret the quote in the context of what you learned.

## Solve each problem. Round monetary amounts to the nearest cent.

2. Monique buys a $\$ 4,700$ air conditioning system using an installment plan that requires $15 \%$ down. How much is the down payment?
3. Craig wants to purchase a boat that costs $\$ 1,420$. He signs an installment agreement requiring a $20 \%$ down payment. He currently has $\$ 250$ saved. Does he have enough for the down payment?
4. Jean bought a $\$ 1,980$ snow thrower on the installment plan. The installment agreement included a 10\% down payment and 18 monthly payments of $\$ 116$ each.
a. How much is the down payment?
b. What is the total amount of the monthly payments?
c. How much did Jean pay for the snow thrower on the installment plan?
d. What is the finance charge?
5. Linda bought a washer and dryer from Millpage Laundry Supplies for $y$ dollars. She signed an installment agreement requiring a $15 \%$ down payment and monthly payments of $x$ dollars for one year.
a. Express her down payment algebraically.
b. How many monthly payments must Linda make?
c. Express the total amount of the monthly payments algebraically.
d. Express the total amount Linda pays for the washer and dryer on the installment plan algebraically.
e. Express the finance charge algebraically.
6. Zeke bought a $\$ 2,300$ bobsled on the installment plan. He made a $\$ 450$ down payment, and he has to make monthly payments of $\$ 93.50$ for the next two years. How much interest will he pay?
7. Gary is buying a $\$ 1,250$ computer on the installment plan. He makes a down payment of $\$ 150$. He has to make monthly payments of $\$ 48.25$ for $2 \frac{1}{2}$ years. What is the finance charge?
8. Mazzeo's Appliance Store requires a down payment of $\frac{1}{3}$ on all installment purchases. Norton's Depot requires a $30 \%$ down payment on installment purchases. Which store's down payment rate is lower?
9. Ari purchased a microwave oven on the installment plan for $m$ dollars. He made a $20 \%$ down payment and agreed to pay $x$ dollars per month for the two years. Express the finance charge algebraically.
