1. Cami invested $\$ 6,000$ dollars into an account that earns $10 \%$ interest compounded annually. a. Write and explicit equation for how much money she will have after $\boldsymbol{t}$ years.
b. How much money will Cami have in 6 years? Round to the nearest hundredth.
2. Sarah's saving account currently has $\$ 200$. She earns $5 \%$ interest on her account compounded monthly.
a. Write an explicit equation for how much money she will have after $\boldsymbol{t}$ years.
b. How much money will Sarah have after 6 months? Round to the nearest hundredth.
3. Paul invested $\$ 400$ into an account with a $5.5 \%$ interest rate compounded monthly.
a. Write an explicit equation for how much money she will have after $\boldsymbol{t}$ years.
b. How much will Paul's investment be worth in 8 years? Round to the nearest hundredth.
4. Theo invested $\$ 6,600$ at an interest rate of $4.5 \%$ compounded monthly.
a. Write an explicit equation for how much money he will have after $\boldsymbol{t}$ years.
b. How much will Theo's investment be worth in 4 years? Round to the nearest hundredth.
5. Paige invested $\$ 1200$ at an interest rate of $5.75 \%$ compounded quarterly.
a. Write an explicit equation for how much money she will have after $\boldsymbol{X}$ years.
b. How much will Paige's investment be worth in 7 years? Round to the nearest hundredth.
6. Brooke is saving money for a trip to the Bahamas that costs $\$ 295.99$. She puts $\$ 150$ dollars into a savings account that pays $7.25 \%$ interest compounded quarterly. Will she have enough money in the account after 4 years? Explain.
7. Jin's investment of $\$ 4,500$ has been losing its value at a rate of $2.5 \%$ each year.
a. Write an explicit equation for how much money he will have after $\boldsymbol{X}$ years.
b. How much will Jin's investment be worth in 5 years? Round to the nearest hundredth.
8. Santos invested $\$ 1,200$ into an account with an interest rate of $8 \%$ compounded monthly. James invested $\$ 1,500$ into an account with an interest rate of $5 \%$ compounded quarterly.
a. Write an explicit equation for how much money Santos will have after $x$ years.
b. Write an explicit equation for how much money James will have after $x$ years.
c. Who will have more money after 5 years?
d. Who will have more money after 7 years?
e. Who will have more money after 10 years?
