Name:	Period	i:	Score:/%
<b>HW 4-5 HON</b>	ORS: Compounded Interest		%
	d \$6,000 dollars into an account that earns 1 and explicit equation for how much money s	_	
b. How n	nuch money will Cami have in 6 years? Round	l to the nearest hundr	redth.
2. Sarah's saving monthly.	g account currently has \$200. She earns 5%	interest on her acc	count compounded
•	an explicit equation for how much money sh	ie will have after <i>1</i>	t years.
b. How n	nuch money will Sarah have after 6 months?	' Round to the nearest	hundredth.
	\$400 into an account with a 5.5% interest range an explicit equation for how much money sh		
b. How n	nuch will Paul's investment be worth in 8 ye	ars? Round to the ne	arest hundredth.
	d \$6,600 at an interest rate of 4.5% compoun an explicit equation for how much money he	•	years.
b. How n	nuch will Theo's investment be worth in 4 ye	ears? Round to the ne	earest 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 ${\pmb x}$ 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 ${\pmb x}$ 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 $\underline{Santos}$ will have after $x$ years.
b. Write an explicit equation for how much money <u>James</u> will have after <i>x</i> 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?