## 6-1: Finding a Place to Live

Name:
Date:

1) Rick makes $\$ 109,992$ per year and wants to budget $25 \%$ of his salary toward his monthly housing payments. Find this monthly payment.
2) Barbara makes $\$ 5,000$ per month and wants to budget $30 \%$ of her salary toward her monthly housing payments. Find this monthly payment.
3) Hannah's financial advisor believes that she should spend no more than $26 \%$ of her gross monthly income for housing. She has determined that amount is $\$ 1,794$ per month. Based on this amount and her advisor's recommendation, what is Hanna's annual salary?
4) Ron makes $\$ 12.50$ per hour. He works 35 hours a week. He pays $24 \%$ of his gross earnings in federal and state taxes and saves $10 \%$ of his monthly gross income. He is considering renting an apartment that will cost $\$ 1600$ per month. Based on his expenses, can he make the monthly payments?
5. Brian's monthly gross income is $\$ 2,950$. He pays $22 \%$ of his monthly gross earnings in federal and state taxes and spends $10 \%$ of that monthly income to pay off his credit card debt. Brian is also paying off a loan his parents gave him for a new car by sending them $8 \%$ of his income per month. Brian found an apartment near his work that rents for $\$ 1,300$ per month. Will he be able to make the payments without changing the amounts he pays towards his loan and credit card debt?
6. The square footage and monthly rental of 15 similar one-bedroom apartments yield the linear regression formula $y=1.3485 x+840.51$, where $x$ represents the square footage and $y$ represent the monthly rental price. Round answers to the nearest whole number.
a) Determine the monthly rent for an apartment with 1200 square feet.
b) Determine the square footage of an apartment with a monthly rent of $\$ 1900$.
