Name $\qquad$

1. Your 24-year-old sister invested her high school graduation money (at age 18). Her $\$ 1000$ investment is now worth how much if she has been earning $6.5 \%$ compounded monthly?

$$
1000(1+.065 / 12)^{72}=\$ 1475.43
$$

2. You win $\$ 5,000$ from a radio contest, and you decide to invest a portion of your winnings. Assuming you can earn $9 \%$ compounded monthly, how much of the $\$ 5,000$ should you invest now to accumulate $\$ 10,000$ in ten years?
$10000=P(1+.09 / 12)^{120} \rightarrow P=10000 /(1+.09 / 12)^{120}=\$ 4079.37$
