Calculate the final value of an initial investment of \$7500.00. Interest is paid at 3.8% per annum, compounded quarterly, for 4 years.

A = final value of the investment ...(principal + interest)

P = principal

r = annual interest rate

n = number of compounding periods in a year

t = term of the investment or loan in number of years

$$A = P \left(1 + \frac{r}{n} \right)^{n}$$

$$A = 7500 \left(1 + 9 \cdot 038 \right)^{16}$$

$$A = 7500 \left(1.0095 \right)^{16}$$

$$A = 7500 \left(1.163325 \right)$$

$$A = 8724.94$$

Jennifer wants to invest \$3900.00. Interest is paid at 4% per annum, compounded semi-annually, for 5 years. How much interest would Jennifer make on her investment?

$$A = P \left(1 + \frac{r}{-1} \right)$$

$$P = 3900$$

$$P = 3900$$

$$P = 3900 \left(1 - 02 \right)$$

$$P =$$

Ava wants to have \$3000.00 in two years to go on a school trip. Her bank offers an investment option that earns interest compounded semi-annually at a rate of 3%. How much money would Ava need to

invest?

$$A = P \left(1 + \frac{r}{n}\right)^{nt}$$
 $P = ?$
 $P = ?$

Will wants to have \$10,000 in 3 years to go on a graduation trip. His bank offers an investment option that earns interest compounded quarterly at a rate of 5.25%. How much money would Will need to invest today? $A = P\left(1 + \frac{r}{n}\right)^n$