Final amount is the total at the end.

Rita takes out a loan of \$5,000 for 4 years at 6.5%. How much interest does Rita have to pay back using simple interest?

$$T = P \cdot r \cdot t = $5000 \cdot 0.065 \cdot 4$$

$$= $1300$$

3. Yuri invests \$7,500 for 300 days at 10.2%. How much money will be in Yur

3. Yuri invests \$7,500 for 300 days at 10.2%. How much money will be in Yuri's account using simple interest?

$$T = P \cdot V \cdot C = $7500 \cdot 0.102 \cdot \frac{300}{365}$$

$$= $6750 \cdot 77$$

4. Tom borrows \$3675 for 19 months at 8.7% interest. How much does Tom have to pay back at the end using simple interest?

using simple interest?
$$T = P \cdot V - t = $3675 \cdot 6.087 - \frac{19}{12} - K50473$$

$$= $506.23$$

$$A = P + I = $3675 + $506.23 = 94181-237$$

account 15 years later using compound interest?
$$A = P(1 + \frac{r}{n})^{n+1} = $3000(1 + \frac{0.03}{1})^{15}$$

5. Suyeon deposits \$3,000 in a savings account at 3% compounded annually. How much will be in the

6. You are looking to take out a loan for \$10,000 from a bank for 8 years. They offer you an interest rate interest?

You are looking to take out a loan for \$10,000 from a bank for 8 years. They offer you an interest of 6.9% compounded quarterly. How much will you have to pay back at the end using compound interest?

$$A = P(1 + \frac{v}{n})^{n+1} = \frac{4}{0}, 000(1 + \frac{0.069}{4})^{8} = \frac{4}{0}$$

$$= \frac{4}{0}, 000(1 + \frac{0.069}{4})^{8} = \frac{3}{0}$$

$$= $10,00(1+0.01725)^{32}$$
$$= $17285.68($$

7. Lily invests \$5600 at 11.8% compounded monthly. How much interest does she earn after 10 years using compound interest?

$$A = $5600 \left(1 + \frac{0.118}{12}\right)^{12 - 10} - $5600 \left(1 + 6.0098333\right).$$

$$I = A - P = $18119.75 - $5600$$
  
=  $512519.75$ 

= \$18119,75