## Review for Test

## Solve each of the following using simple or compound interest:

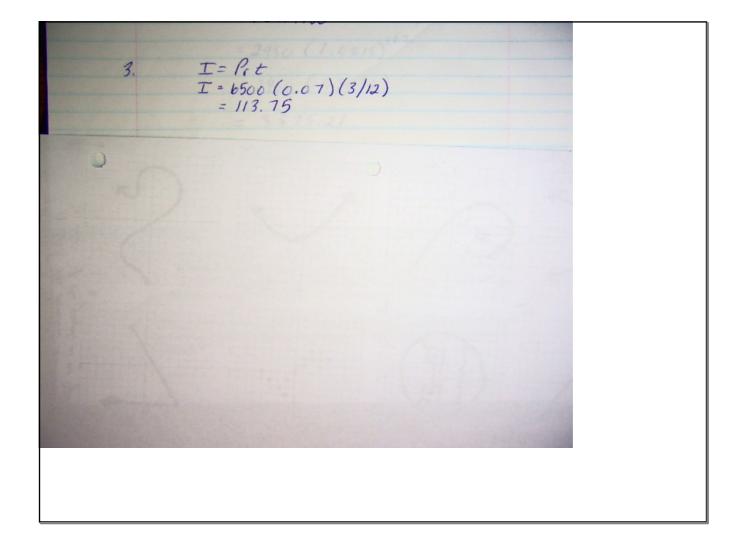
- 1. Jim wants to invest \$8000.00. His bank offers an investment option that earns simple interest at a rate of 3.25% per year. How much interest would Jim earn on his investment after 6 years?
- 2. Troy wants to invest \$4500.00. His bank offers an investment option that earns interest compounded quarterly at a rate of 3.2% per year for 7 years
- 3. Ava's bank offers a simple interest rate of 7% per annum. How much interest would Ava earn on her investment of \$6500.00 after 3 months?
- Ryan wants to invest \$650.00. His bank offers an investment option that earns interest compounded monthly at a rate of 6.3% per year for 5 years.
- Ben wants to invest \$2950.00. His bank offers an investment option that earns interest compounded biweekly at a rate of 3.9% per year for 7 years

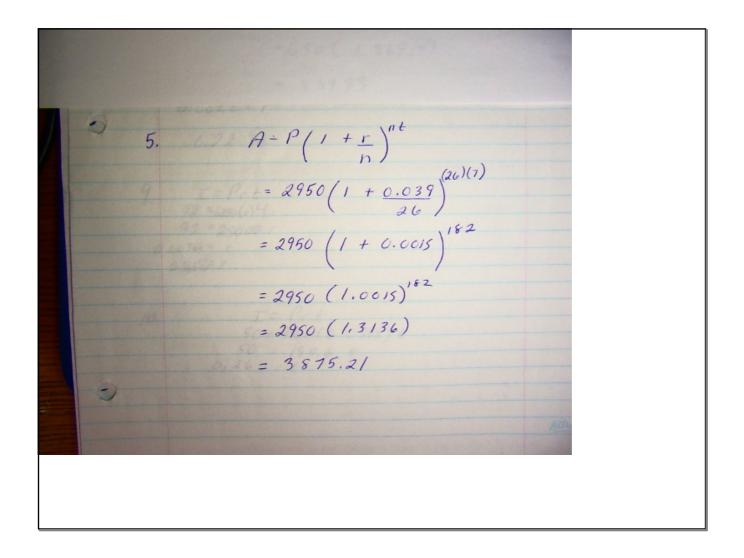
## Using the simple interest equation calculate the unknown (I = Prt)

- 6. The interest earned on a deposit is \$89.00 with an interest rate of 4.2% per annum. If the money was invested for 4 years, what is the principal?
- 7. The interest earned on a deposit is \$210.00 with an interest rate of 6.5% per annum. If the money was invested for 6 years, what is the principal?

o.oo after 3 months? on interest would Ava earn 4. Ryan wants to invest \$650.00. His bank offers an investment option that earns interest compounded monthly at a rate of 6.3% per year for 5 years. 5. Ben wants to invest \$2950.00. His bank offers an investment option that earns interest compounded biweekly at a rate of 3.9% per year for 7 years. Using the simple interest equation calculate the unknown 6. The interest earned on a deposit is \$89.00 with an interest rate of 4.2% per annum. If the money was invested for 4 years, what is the principal? 7. The interest earned on a deposit is \$210.00 with an interest rate of 6.5% per annum. If the money was invested for 6 years, what is the principal? 8. The interest earned on a deposit of \$5000.00 is \$78.00. If the money was invested for 7 years, what is the interest rate? 9. The interest earned on a deposit of \$6250.00 is \$92.00. If the money was invested for 4 years, what is the interest rate? 10. The interest earned on a deposit of \$4800.00 is \$50.00 with an interest rate of 3.95%. How many years was the money invested?

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1. I = P_{r}t
I = (8000)(0.0325)(6)
I = 1560
2. A = P\left(1 + \Omega\right)^{n}t
A = 4500\left(1 + 0.032\right)^{4}
A = 4500\left(1 + 0.032\right)^{28}
A = 4500\left(1 + 0.008\right)^{28}
A = 4500\left(1.24995\right)
A = 5624.80
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6. T = P_r t

89 = P(0.042)(4)

89 = P(0.168)

529.76 = P

7. T = P_r t

210 = P(0.065)(6)

210 = P(0.39)

538.46 = P

T = P_r t

76 = 5000(r)(7)

78 = 35000r

0.022 = r

0.22\%
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9. I = Prt
92 = 4500 (1)4
92 = 25000 r
0.0345% = r
0.345% = r
10. I = Prt
50 = 4500 (0.0395) t
50 = 189.6 t
0.26 = t
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