HOMEWORK... Questions.

p. 452: #1 - 6, 10, 11



$$G_{A} = P + I$$

$$OR$$

$$A = P + Prt$$

$$A = P(1 + rt)$$

- 2. Cam hap\$5000 to invest. He wants his principal to grow to \$6500 A in 5 years so that he can afford a new drum kit.

  What simple interest rate will allow him to meet his goal?

  - b) Suppose that interest is paid semi-annually and Cam withdraws all the money after 3.25 years. How much money will he have?



6 % = 6 b t = 31 ys. A = 6 + 61 t A = 600 + 500 (0.06)(3) A = 45 900

- Both Brad and Chris purchased a \$15 000 GIC.
  - Brad's GIC has a term of 6 years and a simple interest rate of 3.2%.
  - Chris's GIC has a term of 5 years at a simple interest rate of 3.3%.
     Whose GIC will have the greater <u>future value</u> at maturity? Explain.

15000+15000\*0.03

17475

6. a) A \$12 000 Canada Savings Bond has a term of 10 years. What interest rate is needed for the future value of the CSB to be

interest rate is needed for the future value of the CSB to be \$15 000 at maturity? I = (5000-1200) I = 300.

B) Suppose that the interest rate from part a) was increased by 1%. What would be the future value of the CSB at maturity?

## WARM-UP.

You earned \$107.42 simple interest on a \$671.37 investment over four years. What was the interest rate?

## PRACTICE rearranging... I = Prt

Worksheet - Rearranging Simple Interest.pdf

Text p. 452: #10, 11, 12

Worksheet - Rearranging Simple Interest.pdf