## **HOMEWORK Questions...**

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

$$A = P + I$$

$$OR$$

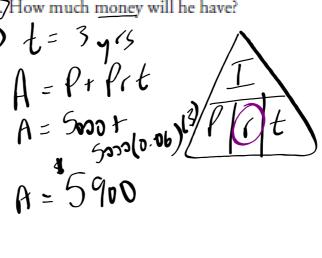
$$A = P + Prt$$

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

## HOMEWORK QUESTIONS...

- 2. Cam has \$5000 to invest. He wants his principal to grow to \$65000 t in 5 years so that he can afford a new drum kit.

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



- 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 1 = 3000 \$15 000 at maturity?
  - b) Suppose that the interest rate from part a) was increased by 1%. What would be the future value of the CSB at maturity?

a) 
$$(=\frac{3000}{12000(10)} \times 100.1$$

B at maturity?

(b) 
$$A = P + P - k$$
 $A = 12000 + 12000 (0.035)(0)$ 
 $A = 16200$ 

- 10. Shaun has been looking at houses. He has \$10 000 that he wants to invest, hoping that he can end up with \$15 000 to make a down an opportunity to invest at 6.5% simple interest, paid
  - payment on a house. He has annually. How long will it take before Shaun can make a down payment of \$15 000?



$$t = \frac{5000}{(10000 \times 0.065)}$$

$$t = 7.7 \text{ years}$$

$$t = 7.7 \text{ years}$$

- A bank is offering a simple interest rate of 3.2% for a guaranteed investment certificate with a 5-year term.
  - a) What principal would you need to invest if you wanted to have \$20 000 at the end of the term?



b) How long would it take for the value of the GIC to be \$25 000?



## 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: #11 & 12

Worksheet - Rearranging Simple Interest.pdf