Mid-Chapter Review

- 1. Describe each term in your own words.
 - a) interest e.g., amount of money earned on an investment
 - b) annual interest rate <u>e.g.</u>, <u>percent earned on an investment</u> each year
 - c) principal e.g., the money invested, the starting amount
- 2. Renée runs a hair salon in Flin Flon. She was saving for new salon chairs. She earned \$75.25 in simple interest on a 3 yr investment. The interest rate was 2.4%/yr.
 - a) How much did Renée invest?

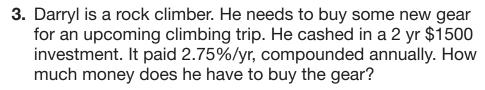
e.g., \$75.25 =
$$P(0.024)(3)$$

\$1045.138... = P

Renée invested \$1045.14.

b) How much does Renée have to spend on new chairs?

e.g.,
$$A = $1045.14 + $75.25$$
, or \$1120.39
Renée has \$1120.39 to spend on new chairs.



e.g.,
$$A = \$1500(1 + 0.0275)^2$$

= $\$1583.634...$ Darryl has \$1583.63 to buy the gear.

4. Giacomo earned \$12.17 in simple interest on his investment of \$1000. The interest rate was 1.5%/yr. How long did he invest the money? Round up the number of days.

e.g.,
$$\$12.17 = (\$1000)(0.015)(t)$$

$$\frac{\$12.17}{(\$1000)(0.015)} = t$$
 So $t = 0.811... \text{ yr} \times 365 \text{ d/yr} = 296.136... d, or 297 d He invested the money for 297 d.$

