

## 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 e.g., percent earned on an investment 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?

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

$$\$1045.138... = P$$

Renée invested \$1045.14.

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

$$\text{e.g., } A = \$1045.14 + \$75.25, \text{ or } \$1120.39$$

Renée has \$1120.39 to spend on new chairs.



3. Darryl is a rock climber. He needs to buy some new gear for an upcoming climbing trip. He cashed in a 2 yr \$1500 investment. It paid 2.75%/yr, compounded annually. How much money does he have to buy the gear?

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

$$= \$1583.634... \quad \text{Darryl has } \$1583.63 \text{ to buy the gear.}$$

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.

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

$$\frac{\$12.17}{(\$1000)(0.015)} = t$$

$$\text{So } t = 0.811... \text{ yr} \times 365 \text{ d/yr} = 296.136... \text{ d, or } 297 \text{ d}$$

He invested the money for 297 d.