Chapter Review

- **1.** Calculate each unit price.
 - a) 3 shrubs for \$145.50 c) 200 g for \$69.98 \$145.50 ÷ 3 \$69.98 ÷ 200 ± \$0.35/g = \$48.50/shrub

- b) \$10.99 for 4 kg \$10.99 ÷ 4 = \$2.75/kg \$362.50 ÷ 250 = \$1.45/L
- **2.** Jelani is choosing between a 300 g package of cheddar cheese for \$4.57 and a 450 g package for \$7.65. Which package has a lower unit price?

e.g., \$4.57 ÷ 300 g = \$0.015/g \$7.65 ÷ 450 g = \$0.017/g The 300 g package has a lower unit price.

- Dalton is trying to attract more members to his gym. Memberships usually cost \$649/year with a sign-up fee of \$75. He offers two promotions:
 - Fitness promotion: no sign-up fee
 - Strength promotion: 15% off total fee

Which promotion is less expensive for a 12-month membership?

e.g., Fitness: \$649 Strength: regular price: \$649 + \$75 = \$724 discount: 15% of \$724 = \$108.60 cost: \$724 - \$108.60 = \$615.40

- The Strength promotion is less expensive.
- **4.** Ramona is a travel agent. She has found a 30% off deal for her client. The regular price for the trip is \$850 per person. How much does the trip cost with the 30% discount?

e.g., \$850 x 0.70 = \$595

The trip costs \$595.

- **5.** Karlee provides maid service to residential homes. She would like to increase her prices by 15%. She currently charges \$18/h.
 - a) What would Karlee's new hourly rate be?

e.g., $$18/h \times 1.15 = $20.70/h$ Her new rate would be \$20.70/h.

b) Karlee is currently working 40 h a week. How much *more* would she be making after the increase?

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e.g., $20.70 - $18 = $2.70
$2.70 x 40 = $108
She would be making $108 more per week.
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- **6.** David wants to take cooking classes. One cooking school offers 12 classes for \$552.50. If he signs up before the end of the week, he will get a 20% discount.
 - a) How much will the classes cost with the 20% discount?

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e.g., $552.50 x 0.80 = $442.00
The classes will cost $442.00.
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b) How much would David be paying per class before the discount and after the discount?

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e.g., $552.50 ÷ 12 classes = $46.04/class
$442 ÷ 12 classes = $36.83/class
David would be paying $46.04 before the discount, and
$36.83 after the discount.
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7. In 2010, many people travelled to Vancouver to participate in the Olympics. If an athlete from Japan brought 100 000 yen, how much is this in Canadian dollars if $\$1 \doteq C\0.011 ?

e.g., JP¥100 000 x 0.011 C\$/JP¥ = C\$1100

- 8. Jonathan travelled to Mexico for business. He paid C\$899 for the trip and spent an additional 1400 pesos while in Mexico.
 - a) Estimate the value of MX\$1400 in Canadian dollars.

e.g., MX\$1400 \div 10 = C\$140

b) Calculate the cost of Jonathan's trip in Canadian dollars.

MX\$1400 x C\$0.081/MX\$ = C\$113.40 C\$899 + C\$113.40 = C\$1012.40

