Section 2.3 Additional Earnings, Build Your Skills, p108–109 Student Resource, p76–77

## **Build Your Skills**

a) Calculate annual danger pay.
\$1900.00 × 12 = \$22 800.00
Add annual salary and danger pay.
\$52 250.00 + \$22 800.00 = \$74 050.00
Julia's annual salary will be \$74 050.00.
b) Divide the total by 12 to find the monthly amount.
\$74 050.00 ÷ 12 = \$6170.83
Julia's monthly salary will be \$6170.83.

2. Calculate 1% of the total tips.  $760.00 \times 0.01 = 7.60$ David's share of the tips will be \$7.60.

3. Calculate Tristan's wages for 4 weeks.  $10.00/h \times 5 h = 50.00$   $50.00 \times 16 days = 800.00$ Calculate the tips he expects to earn in 4 weeks.  $650.00 \times 0.15 = 97.50$   $97.50 \times 16 days = 1560.00$  800.00 + 1560.00 = 2360.00Tristan will earn about \$2360.00 in 4 weeks.

4. a) Let x = number of hours worked Let y = number of workers per shift Let z = amount of tips x (\$10.00/h) +  $\frac{z}{y}$  = Layla's gross earnings b) 6 (\$10.00) +  $\frac{$53.62}{3}$  = \$77.87

No, Layla is incorrect. She earned \$77.87, not \$79.13, during this shift.

5. First, calculate 15% of \$42 000.00 to find the bonus amount. \$42 000.00 × 0.15 = \$6300.00 His bonus is \$6300.00. Add the base salary and the bonus to get the total salary. \$42 000.00 + \$6300.00 = \$48 300.00 Ivan's total salary will be \$48 300.00.

6. Calculate the annual isolation allowance.  $$41\ 610.52 - $38\ 901.76 = $2708.76$ Divide the annual isolation allowance by 12 to get the monthly amount.  $$2708.76 \div 12 = $225.73$ Francis's monthly isolation allowance is \$225.73.

7. a) Find the number of hours in Jamila's shift that are eligible for a shift premium. 11 - 5 = 6 hJamila will earn the shift period for 6 hours of her shift. b) Method 1 Calculate Jamila's regular pay for the shift.  $17.36/h \times 8 h = 138.88$ Calculate the amount of the shift premium.  $2.00/h \times 6 h = 12.00$ Add the two amounts. 138.88 + 12.00 = 150.88Jamila will earn \$150.88 for her shift. Method 2 Calculate her regular pay.  $17.36/h \times 2 h = 34.72$ Calculate her shift premium pay.  $19.36/h \times 6 h = 116.16$ Add the two amounts. \$34.72 + \$116.16 = \$150.88 Rishma will earn \$150.88 for her shift. c) Calculate her earnings at the shift premium rate.  $6 h \times 5 \times \$19.36/h = \$508.80$ Then calculate her total earnings for the week.  $(\$17.36/h \times 10 h) + \$508.80 = \$682.40$ Divide her shift premium amount by her total earnings.  $508.80 \div 682.40 = 0.746$ 75% of her weekly wage is at the shift premium. d) Divide her weekly hours at the regular rate by her total weekly hours.  $10 \div 40 = 0.25$ 25% of her weekly schedule is regular hours.

## **Extend Your Thinking**

8. a) To find Rosa's mileage allowance, multiply the number of kilometres she drove by the rate paid for one kilometre.

 $536 \text{ km} \times \$0.605/\text{km} = \$324.28$ 

Rosa will be paid \$324.28 for the trip.

b) Answers will vary but students may consider the following factors: the costs of fuel, insurance, and repair and maintenance costs such as oil changes and tune-ups. In most situations, this mileage allowance would probably be considered fair, although some students may consider that too much wear and tear on a personal vehicle might make the compensation level seem too low.