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

## Build Your Skills

1. a) Calculate annual danger pay.
$\$ 1900.00 \times 12=\$ 22800.00$
Add annual salary and danger pay.
$\$ 52250.00+\$ 22800.00=\$ 74050.00$
Julia's annual salary will be $\$ 74050.00$.
b) Divide the total by 12 to find the monthly amount.
$\$ 74050.00 \div 12=\$ 6170.83$
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.
$\$ 10.00 / \mathrm{h} \times 5 \mathrm{~h}=\$ 50.00$
$\$ 50.00 \times 16$ 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 $=\$ 1560.00$
$\$ 800.00+\$ 1560.00=\$ 2360.00$
Tristan 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
$x(\$ 10.00 / \mathrm{h})+\frac{z}{y}=$ 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 $\$ 42000.00$ to find the bonus amount.
$\$ 42000.00 \times 0.15=\$ 6300.00$
His bonus is $\$ 6300.00$.
Add the base salary and the bonus to get the total salary.
$\$ 42000.00+\$ 6300.00=\$ 48300.00$
Ivan's total salary will be $\$ 48300.00$.
6. Calculate the annual isolation allowance.
$\$ 41610.52$ - $\$ 38901.76=\$ 2708.76$
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.
$11-5=6 h$
Jamila will earn the shift period for 6 hours of her shift.
b) Method 1

Calculate Jamila's regular pay for the shift.
$\$ 17.36 / \mathrm{h} \times 8 \mathrm{~h}=\$ 138.88$
Calculate the amount of the shift premium.
$\$ 2.00 / \mathrm{h} \times 6 \mathrm{~h}=\$ 12.00$
Add the two amounts.
$\$ 138.88+\$ 12.00=\$ 150.88$
Jamila will earn $\$ 150.88$ for her shift.

## Method 2

Calculate her regular pay.
$\$ 17.36 / \mathrm{h} \times 2 \mathrm{~h}=\$ 34.72$
Calculate her shift premium pay.
$\$ 19.36 / \mathrm{h} \times 6 \mathrm{~h}=\$ 116.16$
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.
$6 \mathrm{~h} \times 5 \times \$ 19.36 / \mathrm{h}=\$ 508.80$
Then calculate her total earnings for the week.
$(\$ 17.36 / \mathrm{h} \times 10 \mathrm{~h})+\$ 508.80=\$ 682.40$
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. $536 \mathrm{~km} \times \$ 0.605 / \mathrm{km}=\$ 324.28$
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.
