Review Assignment
Earning an Income

Answer Key

Last Name First Name Period

Teacher Feedback:

Learning Goals:	Beginning	Progressing	Achieving	Excelling
I can calculate earnings based on a rate				
I can calculate earnings based on a time card				
I can calculate earnings from piecework and commission				
I can calculate additional earnings (e.g. tips, bonuses, and overtime)				
I can calculate deductions and net pay				

Learning Goal 1 – Wages and Salaries

I can calculate earnings based on a rate

Corrections:

1. Hannah works at a bakery and is paid a wage of $11.20/hour.

   a) If she worked for 38 hours last week, how much will her gross income be for the week?

$\frac{\$11.20}{\text{hour}} \times \frac{38 \text{ hours}}{\text{week}} = \$425.60/\text{week}$ = $425.60 per week

   b) What is Hannah's annual income?
   (Hint: there are 52 weeks in a year)

$\frac{\$425.60}{\text{week}} \times \frac{52 \text{ weeks}}{\text{year}} = \$22,131.20/\text{year}$

= $22,131.20 per year

2. Enrique worked as a landscaper for the city last summer. His gross income was $4410 for 9 weeks of work. He worked for 8 hours a day, Monday – Friday. 5 days

   a) What was his weekly income?

$\frac{\$4,410}{9 \text{ weeks}} = \frac{\$490}{\text{week}}$

   b) What was his **daily income**?

$\frac{\$490}{\text{week}} \div \frac{5 \text{ days}}{\text{week}} = \$98/\text{day}$

   c) What was Enrique's hourly wage?

$\frac{\$98}{\text{day}} \div \frac{8 \text{ hours}}{\text{day}} = \$12.25/\text{hour}$

= $12.25 per hour

Learning Goal 2 – Wages and Salaries

I can calculate earnings based on a time card

Corrections:

3. Use Noelle's time card below:

Zaynab's Time Card			
Day	**IN**	**OUT**	**Total Hours**
Monday			0
Tuesday	7:45 AM	14:45 2:45 PM	7
Wednesday	8:00 AM	15:30 3:30 PM	7.5
Thursday	10:00 AM	16:00 4:00 PM	6
Friday	6:15 AM	12:15 PM	6

a) Fill out the time card. Noelle work in total?

7 + 7.5 + 6 + 6

= 26.5 hours.

b) If Noelle is paid $22.95/hour, what is her gross income for the week?

$\$ \frac{22.95}{\text{hour}} \times \frac{26.5 \text{ hours}}{\text{week.}}$

$= \$ 608.18 / \text{week}$

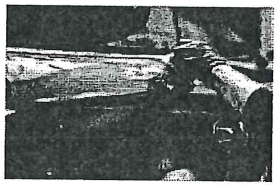
= $608.18 per week

Learning Goal 3 – Alternative Ways to Earn

I can calculate earnings from piecework and commission

Corrections:

4. Nico works at a car wash and is paid per car that he washes. Last week, he was paid $480 for washing 40 cars. What is he paid per car?



$\frac{\$480}{40 \text{ cars}} = \frac{\$12}{\text{car}}$

$12 per car

5. Manisha works at an electronics store and makes $10/hour plus 2% commission on whatever she sells. Last week she worked 40 hours and sold $8250 worth of merchandise. What was her gross income for the week?

$\frac{\$10}{\text{hour}} \times 40 \text{ hours} = \$400$ ← income from hourly work

$\frac{2}{100} = 0.02$

$\$8,250 \times 2\%$

$\$8,250 \times 0.02$

$= \$165$ ← commission

Gross Income = $\$400 + \$165$

$= \$565$

Learning Goal 4 – Additional Earnings

I can calculate additional earnings like tips, bonuses, and overtime pay

Corrections:

1. Write the formula for each type of overtime pay:

   Time and a half = $\frac{1.5}{2}$ x regular wage

   Double time = $\frac{2}{2}$ x regular wage

2. Zoey is a veterinary assistant and earns $28.50/h for a 35 hour work week and is paid **double time for any overtime hours.**

   Last week Zoey worked 40 hours. How much was she paid?

40 − 35 = 5 hours of OT @ double time

$28.50/hour × 35 hour = $997.5

($28.50/hour × 2) × 5 hour = 57 × 5 = $285 ← double time

Total = $997.5 + $285 = $1,282.50

3. Mia is a waitress at a fancy restaurant and makes 18% in tips on average. If she sells $3215.00 worth of food and beverages, how much will she make in tips?

$3,215 × 18% ← $\frac{18}{100} = 0.18$

$3,215 × 0.18

= $578.70 in tips

4. Riley works in a mine in Northern B.C. His regular wage is $31.90/h but since his work is in a remote location, he receives a "isolation pay" bonus of 22%. ← 0.22

   How much would Riley make for a 50h work week?

$31.90/hour × 50 hour/week = $1,595/week

Isolation pay = $1,595 × 0.22 = $350.90

$1,595 + $350.90 = $1,945.90

Learning Goal 5 – Deductions and Net Pay

I can calculate deductions and net pay

Corrections:

1. Name 3 examples of deductions that might come off your paycheque:

   i) Canadian Pension Plan (CPP)

   ii) Employment Insurance (EI)

   iii) Income Tax

2. Enrique's federal tax rate is 19.2%. How much is deducted from his $3820 paycheque?

   $\frac{19.2}{100} = 0.192$

   $\$3,820 \times 0.192$

   $= \$733.44$ is deducted

3. Joe is a plumber. His gross income for the year is $72,125.00

   - His **before-tax deductions** include union dues of 2.6% and a pension of 3.4%. $2.6\% + 3.4\% = 6\% = 0.06$
   - Alex pays a federal tax rate of 17%, a provincial tax rate of 7.1%, CPP at 4.9%, and EI at 2.3%.

   $17 + 7.1 + 4.9 + 2.3 = 31.3\% = 0.313$

   What is Joe's **net annual income**?

Before-tax deductions: $\$72,125 \times 0.06$

$= \$4,327.50$ ← Before-tax deductions

$\$72,125 - \$4,327.50$

$= \$67,797.50$

Taxes: $\$67,797.50 \times 0.313$

$= \$21,220.62$ ← Taxes

$\$67,797.50 - 21,220.62$

$= \$46,576.88$ ← Net Income