Name: _____   Date: _____

Big Ideas

1. Regular hours for most full time jobs are between $\underline{35-40 \text{ hours}}$ per week.

2. Employees can be paid in different time intervals.
   - bi-weekly (every other week)
   - twice a month
   - monthly

3. $\underline{\text{Income}}$ includes earnings from all sources, including:
   - regular pay cheque
   - tips
   - commission
   - bonuses

   * lottery or gambling winnings

4. Minimum overtime amounts are set by the provincial government. Company policy may be over and above the minimum requirements.

   a. If you work < 8hrs/day the employee must be paid regular time.

   b. if you work < 12 hrs/day the employee must be paid time and a half for time over 8 hrs

   c. if you work > 12 hrs/day the employee must be paid
      - regular time for 8 hrs
      - time and a half for 4 hrs
      - double time for remainder

To calculate overtime, use the formula:

if you work < 12 hours
# of hrs paid for =
$8 + 1.5(t - 8)$

if you work > 12 hours
# of hrs paid for
$8 + 1.5(\overset{6}{\cancel{4}}) + 2(t - 12)$
$= 14 + 2(t - 12)$

https://www2.gov.bc.ca/gov/content/employment-business/employment-standards-advice/employment-standards/hours?keyword=overtime

Example Liam is a sales clerk in a bicycle shop. He is paid $15 per hour for a 37.5-hour week, plus a commission of 6% of his sales for the week. In one week, his sales were $2319.57.

a. Calculate Liam's wage for the week.

$$\begin{array}{r} 37.5 \\ \times\ 15 \\ \hline \$562.50 \end{array}$$
↑ hourly wage

$6\% = \dfrac{6}{100} = 0.06$

0.06×2319.57
$= \$139.17$
↑ Commission

Weekly wage = $562.50 + 139.17$
$= \$701.67$

b. What is his average hourly wage for that week?

$$\dfrac{\$701.67}{37.5\,hrs} = \$18.71/hr$$

c. What would his sales need to be for him to earn $850 in one week?

$$\begin{array}{r} 850 \\ -\ 562.50 \\ \hline \$287.50 \end{array}$$
↑ his commission

$6\% \times sales = commission$

$\dfrac{0.06\,s}{0.06} = \dfrac{287.50}{0.06}$

sales = $\$4791.67$

Example Mila was just hired at a company that sells furniture. She will typically work 40 hours a week and is given the choice of how to receive her wage. Her options are either

① • $16 per hour plus an extra commission of 10% of her sales, or

② • $19 per hour with no sales commission.

   a. Without calculating anything, which do you think she should choose? Explain.

very personal — are you a good sales person?

(I am not so I would go with option 2)

   b. If she sells $1000 in a week, how much would she make using either option?

①   40   10% of 1000
     × 16   = 0.1 × 1000
     $640   = $100

②   40
     × 19
     $760

     640
     + 100
     $740

   c. What about if she sells $1500 in a week?

①   40   10% of 1500
     × 16   = 0.1 × 1500
     $640   = 150

②   40
     × 19
     $760

     640
     + 150
     $790

Example Sarah works at long-time care facility as a personal support worker. Her hourly wage is $19.50 per hour. If she works more than 40 hours in one week, she receives overtime equal to 1.5 times her regular pay ("time and a half").   If she works 38 hours one week and 42 hours the next, consider the following questions.

a.   How many hours will she be paid overtime?

$$2 \text{ hrs} \quad - \quad \text{the weeks are considered}$$
$$\text{seperately}$$

b.   How much does she make over those two weeks?

week 1

$$19.50$$
$$\times \quad 38$$
$$\overline{\$741}$$

week 2   reg.   OT

$$19.50 \left(40 + 1.5(2)\right)$$
$$= 19.50 (40 + 3)$$
$$= 19.50 (43)$$
$$= \$838.50$$

$$\text{Total} = 741 + 838.50 = \$1579.50$$

c.   Why doesn't it equal the same amount if she had worked 40 hours each week instead?

$$40 \text{ hrs each week} \Rightarrow 80 \text{ hrs total paid}$$
$$38 \text{ hrs} + 42 \text{ hrs} \quad \Rightarrow 81 \text{ hrs total paid.}$$