

Assignment 2.1

1) A person earns \$13.60 per hour and works 27 hours a week. Determine the:

a. gross weekly earnings

$$27 \times 13.60 = \$367.20$$

b. gross annual earnings

$$367.20 \times 52 = \$19,094.40$$

c. gross monthly earnings

$$19,094.40 \div 12 = \$1,591.20$$

2) A person works full time and gets paid \$1289 bi weekly. Determine the annual income.

$$1289 \times 26 = \$33,514$$

3) A person works full time and gets paid \$1009.20 semi monthly. Determine the annual income.

$$1009.20 \times 24 = \$24,220.80$$

4) A person earns \$807.50 a week and works 38 hours a week. Determine his hourly pay.

$$807.50 \div 38 = \$21.25$$

5) A person's regular shift is 8 hours. She is paid 150% for overtime hours. Her regular wages are \$14.30. One shift she works 12 hours. Determine her:

a. overtime hourly wage

$$14.30 \times 1.5 = \$21.45$$

b. gross income for 8 hours of regular pay.

$$8 \times 14.30 = \$114.40$$

c. gross income for 4 hours of overtime pay.

$$4 \times 21.45 = \$85.80$$

d. gross income for 12 hours of work.

$$85.8 + 114.4 = \$200.20$$

6) A person earns \$18.80 per hour. He gets a 5% raise.

a. Determine his new hourly wage.

$$18.80 \times 1.05 = \$19.74$$

b. He works 40 hours a week. Determine his annual gross pay. Assume he works the same every week of the year.

$$19.74 \times 40 = 789.6$$

$\times 52$

$$\$41,059.20$$

7) Ken earns \$14.20 per hour. His regular work week is 40 hours. He earns 150% of her hourly wage for all overtime hours. Determine her gross pay for the week:

M T W T F S S

8 8.25 9 8 9.5 0 4.75

Total Hours = 47.5 Regular Hours = 40

OT hours = 7.5

OT wage = 14.20×1.5

Gross Pay $40 \times 14.20 = \$568.00$

$7.5 \times 21.30 = \$159.75$

$\$21.30$

$\$727.75$

- 8) Lenny earns \$18.80 per hour. His regular work week is 40 hours. He earns 150% of his hourly wage for all overtime hours. Determine his gross pay for the week:

M	T	W	T	F	S	S	$8+6+7+7+5+6 = 39 \text{ hr}$
8h20m	6h10m	7h30m	7h40m	5h40m	0	6h10m	$20+10+30+40+40+10 = 150 \text{ min}$ $\frac{150}{60} = 2.5 \text{ hr}$

Total Hours 41.5 Regular Hours 40 OT Hours 1.5 OT wage $18.80 \times 1.5 = \boxed{\$28.20}$

Gross Pay

$$40 \times 18.80 = 752.00$$

$$1.5 \times 28.20 = 42.30$$

$$\boxed{\$794.30}$$

- 9) A sales person earns a 2.5% commission on his sales. One week he has \$36000 in sales. Determine his gross income.

$$36000 \times 2.5\% = \frac{25}{100} = .025$$

$$36000 \times .025 = \boxed{\$900}$$

- 10) A sales person earns a 0.85% commission on his sales. He averages \$26000 in sales per week. Determine average gross monthly income.

$$0.85\% \times 26000 = .0085 \times 26000$$

$$\$221 \times 52 = 11492 \div 12 = \boxed{\$957.67}$$

- 11) A sales person earns a 2.1% commission on his sales, plus a base salary of \$10 per hour. One week he has \$35000 in sales and works 29 hours. Determine his gross income for the week.

$$2.1\% \times 35000 = .021 \times 35000 = \boxed{\$735}$$

$$10 \times 29 = \boxed{\$290}$$

$$\boxed{\$1025}$$

- 12) A contractor accepts a contract to build a deck for \$4800. The materials cost \$2950.
- a. How much profit does he make?

$$4800 - 2950 = \boxed{\$1850}$$

- b. What percent profit does he make?

$$\frac{1850}{2950} = 0.6271 \times 100 = \boxed{62.7\%}$$

- c. He spent 20 hours on the job. Determine his hourly wage.

$$\frac{1850}{20} = \boxed{\$92.50}$$

- 13) A salesperson earns a 2.5% commission on her sales. She wants to make \$1200 per week. How much will she need to sell?

$$2.5\% \text{ of } x = 1200 \quad .025 \times x = 1200$$

$$x = \frac{1200}{.025} = \boxed{\$48000}$$

- 15) A waiter served a family. Their bill is \$148. The family wants to leave a 15% tip. Determine their total bill.

$$148 \times 1.15 = \boxed{\$170.20}$$

- 14) A waiter served a family. Their bill is \$106.95. The family wants to leave a 12% tip. Determine their tip.

$$106.95 \times 0.12 = \boxed{\$12.83}$$

- 16) A waiter served a family. Their bill is \$69.76. The family pays \$75. Determine the percent of the tip.

$$75 - 69.76 = 5.24$$

$$\frac{5.24}{69.76} = 0.075 \times 100 = \boxed{7.5\%}$$

- 17) A warehouse worker earns \$14.80 per hour. There is a shift premium of \$1.20 per hour between 10:00pm and 6:00am. One shift he works from 7:00pm to 2:00am. Determine:
 a. the number of hours he works.

7 hrs

- b. the premium wage and the number of hours he gets the premium.

$14.80 + 1.20 = \$16.00$

10pm → 2am = 4 hrs

- c. his gross pay for the shift. $7-4=3$

$(16 \times 4) + (14.80 \times 3) = 64 + 44.4 = \108.40

- 18) A warehouse worker earns \$12.50 per hour. There is a shift premium of \$2.50 per hour between 10:00pm and 6:00am. He does not get paid overtime. One week he works the following hours:

11	7	6	9	7
m	t	w	t	f
4am-3pm	6pm-1am	9pm-3am	6pm-3am	6pm-1am
3	5	5	5	3

- a. the number of hours he works.

$11 + 7 + 6 + 9 + 7 = 40$

- b. the premium wage and the number of hours he gets the premium.

$12.50 + 2.50 = \$15.00$

$3 + 5 + 5 + 3 = 16h$

- c. his gross pay for the week.

$(40 \times 12.50) + (16 \times 2.50) = 500 + 40 = \540

- 19) A person has a weekly income of \$920.87. Determine their EI and CPP contributions.

CPP: \$42.25
 EI: \$17.31

- 20) A person has a weekly gross pay of \$1543. She is claim code 3. Determine her Federal and Provincial tax deductions.

F: \$224.55
 P: \$86.10

- 21) A person has a weekly gross pay of \$956.80. His claim code is 8. Determine his:

- a. CPP deduction

\$44.03

- b. EI deduction

\$17.98

- c. Federal Tax

\$64.10

- d. Provincial Tax

\$27.75

- e. Total Deductions

$44.03 + 17.98 + 64.10 + 27.75 = \153.86

- f. Net Pay

$956.80 - 153.86 = 802.94$

- g. Annual Net Pay

$802.94 \times 52 = \$41752.88$

- h. Average Net Monthly Pay

$\frac{41752.88}{12} = \$3479.41$

22) A person makes \$25.60 per hour. He works 36 hours per week. His claim code is 0. Determine his:

a. weekly gross pay

$$\begin{array}{r} 25.60 \\ \times 36 \\ \hline 921.60 \end{array}$$

d. Federal Tax

$$\boxed{130.60}$$

g. Net Pay

$$\begin{array}{r} 921.60 \\ - 238.82 \\ \hline 682.78 \end{array}$$

b. CPP deduction

$$\boxed{42.29}$$

e. Provincial Tax

$$\boxed{48.60}$$

h. Annual Net Pay

$$\begin{array}{r} 682.78 \\ \times 52 \\ \hline \$35504.56 \end{array}$$

c. EI deduction

$$\boxed{17.33}$$

f. Total Deductions

$$\begin{array}{r} 42.29 \\ 17.33 \\ 130.60 \\ + 48.60 \\ \hline \$238.82 \end{array}$$