Foundations of Math & Pre-Calculus 10 Chapter 8 ~ Financial Literacy

<u>Lesson F1 ~ Calculate Gross Pay for Various Types of Income</u>

hourly wage	a fixed payment for each hour of work
	Examples: store clerk, fast-food restaurant worker
wage and tips	an hourly wage plus varying amounts in tips for services provided
e for a standard and	Examples: taxi driver, hotel worker
salary	a regular fixed payment for work, usually expressed as an amount per year but paid regularly (e.g., every two weeks or monthly)
	Examples: firefighter, teacher
commission	a payment based on a percentage of the worker's sales
	Examples: real estate agent, car salesperson
royalty	a payment for a piece of work that is marketed and sold. The amount is based on a percentage of sales
	Examples: author, musician
piecework	a payment based on the number of items created or completed
	Examples: sewing machine operator, cable TV installer
contract	a payment for a fixed period of time and/or a fixed amount of mone
	Examples: electrical contractor, editor

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Remember:

- There are 365 days or 52 weeks per year.
- Annual means per year.
- A month has between 4 and 5 weeks...so you will need to find annual income before you can find monthly income.
- Semi-monthly means twice per month and 24 times per year (2 x 12).
- Bi-weekly means every two weeks and 26 times per year (52 \div 2).
- There are 60 minutes in an hour...so 42 minutes is $\frac{42}{60} = 0.7$ hours.

Wages and Salaries

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- A person earns \$12.40 per hour and works
 hours a week. Determine the:
 a. gross weekly earnings.
 - b. gross annual earnings
 - c. gross monthly earnings

- 2) A person earns \$17.95 per hour and works 37.5 hours a week. Determine the: a. gross weekly earnings.
 - b. gross annual earnings
 - c. gross monthly earnings

- 3) A person works full time in a salaried position and gets paid \$1240 semi monthly. Determine the annual income.
- 4) A person works full time in a salaried position and earns \$1080 bi weekly. Determine the annual income.

- 5) A person works full time in a salaried position and earns \$2850 bi-weekly. Determine the average monthly income.
- 6) A person earns \$1300 a week and works 20 hours a week. Determine his hourly pay.

- 7) A person earns \$13852.80 a year and works 18 hours a week. Determine his hourly pay.
- 8) A person is paid time and a half overtime pay when she works more than 8 hours in a day. Her regular wage is \$18.00. Determine her overtime hourly wage and the amount she is paid if she works 10 hours in one day.

- 9) A person is paid time and a half overtime when he works more than 8 hours in a day. His regular wages are \$17.30. Determine his overtime hourly wage and the amount he earns if he works 11.75 hours in one day.
- 10) A person is paid time and a half overtime when he works more than 8 hours in a day. His regular wages are \$14.95. He works 10.25 hours per day, 5 days per week. Determine his daily, weekly, annual, and monthly incomes.

- 11) A person earns \$17.90 per hour. She does such a great job, her boss gives her a 3.5% raise. Determine her new hourly wage.
- 12) A person has an annual salary of \$68400. He does such a poor job, his boss gives him a 2.7% pay cut. Determine his new annual wage.

- 13) A person has an hourly wage, plus time and a half for all hours over 8 in a day. One day she works 11 hours and earns \$178.13. Determine her regular hourly wage
- 14) A person has 2 after school jobs with 2 different hourly wages. One week he works 12 hours at job A and 7 hours at job B and earns \$271.40. The next week he works 8 hours at job A and 15 hours at job B and earns \$344.20. Determine the 2 hourly wages.

Pay Sheet Practice

1. Jim earns \$10.50 per hour, plus time and a half for all hours over 40 in one week. Determine his gross pay for the week.

M	Т	W	T	F	S	S	Reg Hours	OT Hours	Gross Pay
7	5	0	0	8	4	5			

2. Betty earns \$12.75 per hour, plus time and a half for all hours over 40 in one week. Determine her gross pay for the week.

М	Т	W	T	F	S	S	Reg Hours	OT Hours	Gross Pay
8	8	8	10	9	0	4			

3. Rebecca earns \$9.15 per hour, plus time and a half for all hours over 40 in one week. Determine her gross pay for the week.

M	Т	W	Т	F	S	S	Reg Hours	OT Hours	Gross Pay
9	10h15min	12	11h15min	13	5h30min	6			

4. Karen earns \$32.58 per hour, plus time and a half for all hours over 40 in one week. Determine her gross pay for the week.

M	Т	w	T	F	S	S	Reg Hours	OT Hours	Gross Pay
8h	8h	7h	7h		6h	7h		-	
30min	15min	45min	45min	0	45min	15min			

5. Wanda earns \$14.25 per hour, plus time and a half for all hours over 40 in one week. Determine her gross pay for the week.

M	Т	W	Т	F	S	S	Reg Hours	OT Hours	Gross Pay
5h	7h	8h	6	9h		5h			
20min	10min	5min	40m	35min	0	50min			

6. Wendy earns \$17.85 per hour, plus time and a half for all hours over 40 in one week. Determine her gross pay for the week.

Day	M	Т	W	Т	F	S	S
Start	7:53am	8:04am	10:37am		9:43am	10:08am	11:56am
Finish	4:12pm	3:51pm	7:19pm		10:25pm	9:16pm	4:42pm
Hours							

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- 1) A sales person earns a 5% commission on his sales. One week he has \$2800 in sales. Determine his gross income.
- 2) A sales person earns a 3.8% commission on her sales. One week she has \$18700 in sales. Determine her gross annual and monthly income, assuming she sells the amount each month.

- 3) A sales person earns a 4.7% commission on his sales, plus a base salary of \$200 per week. One week he has \$23000 in sales. Determine his gross income for the week.
- 4) A sales person earns a 2.04% commission on his sales, plus a base salary of \$8 per hour. One week he has \$32700 in sales and works 26 hours. Determine his gross income for the week.

- 5) A sales person earns a 0.47% commission on his sales, plus a base salary of \$11 per hour, plus time and a half for hours over 40 in a week. One week he has \$89436 in sales and works 48 hours. Determine his gross income for the week.
- 6) A sales person earns a commission on her sales, plus \$12.80 per hour, plus time and a half for hours over 40 in a week. One week she works 43 hours and has \$21 872 in sales and earns \$853.94. Determine her commission percentage.

- 7) A person repairs electronic gadgets. He gets \$25 per gadget he fixes, plus \$8.75 per hour. One day he works 7h42min and fixes 9 gadgets. Determine his gross pay for the day.
- 8) A salesperson gets a 2.08% commission, plus an hourly wage of \$12.65 per hour, plus time and a half for hours over 40 in a week. One week he works 47 hours and 37 minutes and has \$46 984 in sales. Determine his weekly and monthly incomes, assuming he works and sells the same every week.

- 9) A person is offered 2 jobs. Job A pays \$14.75 per hour and he would work 35 hours per week. Job B pays a 2.8% commission on sales. How much would he need to sell at job B to earn more in a week?
- 10) A salesperson earns a 2% commission on her sales. She wants to make \$1200 per week. How much will she need to sell?

- 11) A salesperson earns a 1.35% commission on his sales. He wants to make \$80000 per year. How much will she need to sell every month?
- 12) A salesperson earns a 0.25% commission on his sales. He wants to make \$6500 per month. How much will he need to sell every week?

<u>Lesson F2 ~ Calculate Income Tax, Other Deductions, and Net Pay</u>

Income Tax	a portion of an employee's earnings that federal and provinc	
	governments use to provide services	
Employment Insurance (EI)	a fund that provides a source of income to people who lose thei jobs (through no fault of their own) while they look for a new job	
Canada Pension Plan	a government fund that provides a monthly pension to workers when they retire	

Company Pension Plan	a fund that provides a company pension during retirement, in addition to CPP
Company Health Plan	a plan for medical expenses not covered by other government health care plans
Life Insurance	a plan that pays a sum of money to a family member or designated beneficiary in the case of an employee's death
Disability Insurance	a plan that provides a source of income when an employee is injured and unable to work
Union Dues	a deduction made when an employee belongs to a union. Unions negotiate wages, benefits, and working conditions with employers.
Payroll Savings	an option for employees to make a regular contribution to a savings plan, such as Canada Savings Bonds
Charitable Donations	an option for employees to make a regular donation to a charity

Payroll Deductions and Net Pay
© 2016 Kuta Software LLC. All rights reserved. 1) A person has a weekly income of \$970. 2) A person has a weekly income of Determine their CPP contribution. \$1187.46. Determine their EI contribution. 3) A person has a weekly income of 4) A person has a weekly income of \$1514.03. They are claim code 6. \$1473.98. They are claim code 1. Determine their Federal tax deduction. Determine their Provincial tax deduction. 5) A person has a weekly gross income of 6) A person has a weekly gross income of \$972.28. They are claim code 3. \$923.89. They are claim code 0. Determine their: Determine their: a. CPP contributions a. CPP contributions b. EI contributions b. EI contributions c. Federal tax deduction c. Federal tax deduction d. Provincial tax deduction d. Provincial tax deduction

f. Net Income f. Net Income