FMP10	
Name:	Date:

Unit 2: Personal Finance

2.1 Wages and Salary

Definitions:	and ly
Salary: a fixed amount of money paid to a wor	ker monthly or annua. The income does not
depend on the MANN her of	haves weeked

hourly wage: the amount of money paid to a worker per hour of work
Overtime: payment for work done in addition to regular hours, typically paid at 1.
shift premium: additional payment made for working undesirable shifts (night)
gross pay: total earning from a position -> before deductions
gross income: 9055 pay.
ross income:

Examples:

1. Marvin earns \$45000 a year. How much is his gross income per pay period?

Type of Salary	Calculation Payment	Gross Income
1. Monthly	45000:12	\$3750
2. Semi- monthly	45000 - 24	\$1875
3. Weekly	45000 - 52	\$ 865.38
4. Bi-weekly	45000 - 26	\$ 1730.77

2. Hourly wage -

Ex. Johnny earns \$16.50/h plus time and a half for overtime over 40 hours. If he works 42 hours one week, find his gross pay.

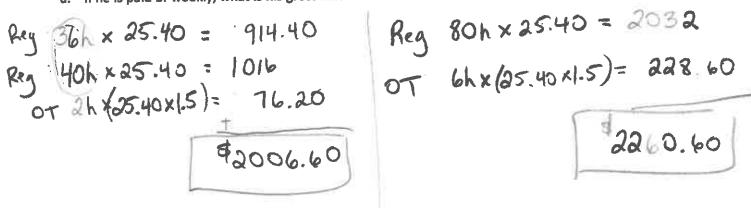
Overall hours
$$\Rightarrow 42 = 40 + 2$$

 $40 \times 16.50 = 660$
 $2 \times (16.50 \times 1.5) = 49.500$
 4709.50

3. Eric makes a wage of \$25.40/hour, and receives overtime for any hours over 40 per week. He works the following schedule over the past 5 weeks.

Week 1	Week 2	*Week 3	Week 4	Week 5
36 hours	42 hours	46 hours	40 hours	50 hours
36 reg	40 reg 2 OT	40R+60T	40 Req	

a. If he is paid bi-weekly, what is his gross income after week 2? Week 4?



b. If week 5 is a set of night shifts with a \$1.35 shift premium, calculate Eric's gross pay for week 5.

c. In week 6, Eric works two 16-hour days. His contract pays overtime after 8 hours, and double-time after 10 hours. How much does Eric earn in those two days?

4. Nic works in a restaurant cooking on a grill for \$14.75 an hour. His work schedule for this week is shown below. If he earns \$24 in tips on Monday, \$18 in tips on Tuesday, \$8 in tips on Wednesday, \$15.50 in tips on Thursday and \$36 in tips on Friday, calculate his gross income for the week.

Sunday	Monday	Tuesday	Wednesday	*Thursday	Friday	Saturday
Off	8:30-12:00	6:00 - 11:00	6:00 - 11:00	8:30 - 12:00	12:00 - 4:00	Off
	Break	Break	Break	Break	Break	
	12:30-4:30	1:00 - 4:00	1:00 - 3:00	1:00 - 5:30	4:30 - 8:00	

12:30-4:30 1:00-4:00 1:00-3:00 1:00-5:30 4:30-8:00 3.5+4 5+3 5+2 3.5+4.5 4+3.5 for
$$f=7.5+8+7+8+7.5$$

Practice:

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2.2 Net Pay

Gross pay: pay before deductions
Deductions must include:
a. Canada Pension Plan (CPP): pension for after retirement
→ maxes out at \$2593.80
b. Employment Insurance (EI): Provides Some income during
c. Income Tax: federal and provincial taxes Deductions can include: benefit deductions (dental, medical),
union dues, pension, etc.
Net pay: the amount you receive after <u>leductions</u> have been taken off.
- Also known as take home pay or net income
Vacation pay: an amount of money (usually 4% of pay) owed to all employees to be taken

2018 Federal income tax brackets*	2018 Federal income tax rates
\$46,605 or less	15%
\$46,605 to \$93,208	20.5%
\$93,208 to \$144,489	26%
\$144,489 to \$205,842	29%

Provincial

Taxable Income - 2019 Brackets	Tax Rate
\$0 to \$40,707	5.06%
\$40,707.01 to \$81,416	7.70%
\$81,416.01 to \$93,476	10.50%
\$93,476.01 to \$113,506	12.29%
\$113,506.01 to \$153,900	14.70%
Over \$153,900	16.80%

Examples:

1. Alphonso has a gross income of \$852.00 per week and works 50 weeks a year. Calculate his gross pay, federal tax, provincial tax, employment insurance (1.66% of gross up to \$54,200 per year), CPP (4.95% of gross to a maximum of \$2593.80), and net pay. Use the tax tables to find the income tax rates.

From pay = \$52 × 50 wk

= 48600 annual

federal tax =
$$15^{\circ}b \rightarrow 0.15 \times 48600$$

= 6390 fed

prov tax = $(40707 \times 0.0506) + (42600 - 40707) \times 0.077$

= $2059.77 + 1893(0.077)$

= $2059.77 + 145.76$

Net Pay

EI = $1.66^{\circ}b \rightarrow 42600 \times 0.0166$

= 108.70

CPP $4.95^{\circ}b \rightarrow 43600 \times 0.0166$

= 108.70

b. If Alphonso also pays 2.5% of his gross to unlon dues and 3% to a company pension plan, calculate his annual net income.

Union $42600 \times 0.025 = 1065$

Net $31188.61 - 1065 - 1278$

Pension $42600 \times 0.03 = 1065$

Net $31188.61 - 1065 - 1278$

Complete the following information in Elaine's paystub below.

	Earni	ngs		Deduction	
Description	Hours	Rate	Amount	Description	Amount
Regular Hours Overtime Double Time Vacation Pay	40 6 2	\$18 \$27 \$36	720 \$162 \$72 \$38.16	Income Tax EI CPP	\$204.30 \$15.68 \$49.11
Gross Pay		·	1992.16	Total Deductions	A 26900
				Net Pay	\$723.07

paid out per cheque

3. Dina lives and works in Prince George. Her annual salary is \$65 000. Each month she has the following tax-exempt deductions taken from her gross income: \$60 for professional dues, \$55 to a Registered Retirement Savings Plan (RRSP) and \$500 for professional dues, \$55 to \$100 for professional dues, \$550 for

Calculate:

a. Taxable income:

b. Federal tax:

$$46605 \times 0.15 = 6990.75$$

 $(63620 - 46605) \times 0.205 = +3488.08$
 $(17015) \times 0.205 = +3488.08$

c. Provincial tax:

$$40707 \times 0.0506 = 2059.77$$

 $(63620 - 40707) \times 0.077$
 $(22913) \times 0.077 = 1764.30$
 3824.07 Prov

d. Employment insurance:

e. CPP: 63620 × 0.0495 = 3149.19 out \$2593.80

f. Net pay:

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NAME:	
DATE:	
OTHER-FORMS	OF INCOME NOTES
Commission	
Definition: commission - income based on amount	+ of soles of the sales price.
	making sales. Industries that use commission include:
Car sales, real estate, some home appliance	e stores, some electronic stores, etc.
Commission can be combined with other incomes,	such as hourly wage plus commission
Commission can be graduated . , where the percent earned changes based on dollar value sold.	
Eg. Davy works as a realtor making a 3.5% commission on the value of homes sold. The average selling price for a house in BC in 2020 is estimated to be approximately \$692,200. If Davy manages to sell one house every two months, calculate his gross income for one year. 6 houses in year $3.5\% \rightarrow 0.035$	
Eg. Davy is offered a salaried position with a salary	of \$100,000 plus 0.7% commission on the homes
sold. How much would this position earn? Which	position would you recommend? Justify your answer.
692200 x 0.007 = 48.45.	40x6 Position 1 HO commission ble makes
692200 × 0.007 = 48.45.	1.40 commission ble makes more \$.
\$129 OTS	.40 > commission plus salary
Eg. JP has the option of a straight commission of 6.8 up to \$300,000 and 10% on sales over \$300,000. If	5% on sales, or a stepped commission of 5% on sales JP can expect to maintain sales of \$500,000, which
pays more? Option 1	Option 2
Straight	aption 2 Geneluated commission
500000 × 0.065	300000 × 0.05 = 15000
= 32500	200000 x 0.1 = 20000

Definition: piecework - a job where the pay is per unit of work

completed.

Eg. Eric delivered realty flyers door-to-door for \$0.15 per flyer. He is delivering flyers to 3500 houses over four weeks. If he delivers them at a constant rate, what is his bi-weekly gross pay?

Definition: contract - an agreement that lays out the amount of work to be completed for a fixed amount of pay.

Eg. Sherry works in a tree nursery preparing seedlings for delivery to tree planting companies. She has a contract to deliver 500,000 seedlings before September 1st, and she will be paid \$50,000. If she can deliver the seedlings before August 1st, the contract grants her a 10% bonus. She begins work on January 1st to prepare the seedlings. If the contract is paid out semi-monthly what is her gross pay per period if she meets the September deadline? What if she makes the August deadline?

Jan to End of August - 8 months

16 payments

16 payments

16 payments

Jan-End July 7 months

14 payments

50000 × 1.1 = 55000

14 + 3928.57 semi monthly