GRADE 10 ESSENTIAL QUIZ WEEK TWO - 220915

Name:	
Date:	

Instructions: (standard instructions)

- Use a calculator where necessary unless indicated otherwise
- **Show work** for best mark.
- Open BOOK this time

1. Karen is 22 years old. Her cat has six toes. She works 35 hours a week while in College. Her rate of pay is \$16.50/hour. She had 30 hours of regular pay and 5 hours of overtime pay. Overtime is paid at 'time-and-a-half'.

She pays 7% of her taxable income to the Federal Government and 10% to the Provincial Government.

She has \$20/week put into a Registered Retirement Saving Plan (RRSP) by her payroll department which is untaxed. (With just that small amount of weekly contribution she will have \$175,000 when she retires). She pays 5.35% of her gross pay into the government retirement plan (CPP). And she has 1.95% of her gross deducted for Employment Insurance.

Calculate her Net Pay by **completing** a Net Pay Template provided. [6 marks] 1



2. Hailey worked the following hours last week:

Μ	Т	W	Th	F	SA	Su
8	6	4	0	10	10	6

Her *regular* rate of pay is **\$12.50** / hour. She gets overtime rate of pay of time and a half, 1.5 times her regular pay after **8** hours in a day.

Calculate Hailey's Gross Pay for the week. [3 marks]

3. Two numbers multiply to make 30, their sum when added is 11. Determine the two numbers (show work!!) [2 marks]

4. Multiply and divide using the normal algorithms (step) [show work][1 mark each]



Bonus Questions (2 extra marks each marks if you need them)

a. Problem Solving. Calculate how many different ways can Christina play each of her five favourite songs (once) in some order on her IPod. Show your method.

b. If 5 bananas cost \$12, then calculate how much 22 bananas will cost.

c. Determine the sum (add them all up) of all the counting numbers from 1 to 20. [Show how you figured it out]