Math 9: Income Quiz

Full credit will only be awarded for all work shown in a neat and organized manner.

There are 52 weeks in a year There are 12 months in a year

 <u>Pick one</u> of the four ways that someone can be paid for their work (Wages, Salary, Piece of Work, Commission). <u>Explain one advantage</u> and <u>one disadvantage</u> of being paid in this way.

Saliry. Advantage - very consistent pay disadvantage - no exta pay for doing a better job

Susan works as a mechanic and gets paid \$37 per hour. One week she worked 55 hours, where 40 were regular hours, 8 were paid at time-and-a-half and the rest were paid at double-time. What was her gross income for the week?

Gross = regular + time and ahalf + double time = \$37.40 + 65.\$37.8 + 2.\$37.7 = \$1480 + \$444 + \$518 = \$2442

Yuri works as an engineer and earns \$5,800 monthly salary. If Yuri is paid every 2 weeks, how much does he earn each paycheque?

per year => \$5,800 • 12 = \$69,600 per 2 weeks => $\frac{$69,600}{26} = [$2676.92]$

4. Tim sells cars and earns commission based on his total sales for the month. He earns 1.5% commission on sales less than \$10,000 and 2.5% on sales more than \$10,000. How much commission does he earn in a month where he sells \$35,000 worth of cars?

Commission = less than \oplus over \$10,000 = \$10,600 \cdot 0.015 + \$ 25000 \cdot 0.025 = \$150 + \$625 = \$775

- Jun works in a cellphone factory and gets paid for each phone she puts together. Jun can assemble 72
 iPhone X's in an 8-hour day. Jun is paid \$3.75 for each iPhone X she puts together.
 - a. How much does Jun earn for every hour of work

$$Perday \Rightarrow 72.$3.75 = $270$$

 $Perhour \Rightarrow \frac{$270}{8} = \frac{$33.75}{}$

b. Jun works 38 hours per week and is paid every 2 weeks. How much does she earn each paycheque?

perweek
$$\Rightarrow$$
 38.\$33,75 = \$1282.50
per 2 weeks \Rightarrow \$1282.50.2 = \$2565

- Hamza works as a medical equipment salesperson. He earns an annual salary of \$51,750 and earns commission based on his sales. He earns 5.5% commission on sales over \$10,000.
 - a. Hamza is paid semi-monthly. How much does he earn from his salary during that time?

Per year >
$$51,750$$

Per Semi => $\frac{$51,750}{24} = \frac{52156.25}{}$

b. During the same semi-monthly period, Hamza sells \$13,000 of medical equipment. What is his gross pay for the semi-monthly period?

Commission =
$$($13,000 - $10,000) \cdot 5.5\%$$

= \$3,000 \cdot 0.055 = \$165