GRADE 10 ESSENTIAL
WEEKLY QUIZ

Name: _____

Date: _____

Quiz Practice 29 Nov 2022

- Use a calculator (unless otherwise indicated)!
- You really should use **your** single sheet of reference notes.
- Conversion tables, templates and formulae will be provided.
- Each question is worth two marks unless otherwise indicated.
- Round decimal answers to the nearest 0.01 or as indicated
    Show your work for best mark
    Put an 'X' here: ☐ ; if you read these instructions (1 mark)

1. Solve the following proportions for *x*:

   a. $\dfrac{5}{8} = \dfrac{x}{20}$

   b. $\dfrac{5}{8} = \dfrac{22}{x}$

2. Convert as indicated: (show work of course!)

   a. 3 km = _____ m

   b. 3.5 miles = _____ yards

   c. 4 gallons = _____ quarts

   d. 355 mL = _____ L

   e. 5 ft 4 in (5' 4") = _____ in

   f. 6 ft 4 in (6' 4") = _____ metres = _____ cm

3. **Add or Subtract** as indicated:

a.
$$\begin{array}{r} 4\ ft\ \ 5\ in \\ +2\ ft\ 10\ in \\ \hline \end{array}$$

b.
$$\begin{array}{r} 8\ ft\ \ 7\ in \\ -2\ ft\ 8\ in \\ \hline \end{array}$$

4. Johnathon pays 22% Income Tax (Federal and Provincial combined) on a monthly taxable income of $1,400. How much Income Tax does he pay?

5. Multiply and divide manually (no calculator; show work)

a.
$$\begin{array}{r} 5.22 \\ \times 6.7 \\ \hline \end{array}$$

b. $57 \div 8$

6. Fractions

a. $\dfrac{1}{5} + \dfrac{3}{5} =$

b. $\dfrac{2}{3} + \dfrac{2}{3} =$

c. $\dfrac{5}{8} * \dfrac{3}{7} =$

Do you remember this stuff?

Not on Quiz

BONUS(ES) (two marks each if you need them)

a.   John ran the marathon in 6 hours and 10 minutes. His girlfriend ran it in 5 hours and 40 minutes. Calculate the time *difference* between the two runners.

b.   Determine the sum (add them all up) of all the whole counting numbers from 1 to 30.

c.   If two pizzas and a big $3 bottle of coke costs a total of $31.00; how much does a single pizza cost?

Quiz Practice Quiz

GRADE 10 ESSENTIAL
~~QUIZ WEEK 3~~ *Quiz Practice*

Name:_____
Date: _____

Instructions: (standard instructions)

- Use your single sheet course reference notes 'cheat sheet' that you are preparing.
- Use a calculator where necessary unless indicated otherwise
- **Show work** for best mark.
- Unit Conversion factors have been / will be provided.
- Round decimal answers to the nearest hundredth (0.01)
- Each individual question is worth two marks unless otherwise indicated.
- Tick here: ☐ if you read these instructions (one mark)

1. Debi is 24 years old. She works 30 hours a week while in College. Her rate of pay is $16.50/hour. She had 25 hours of regular pay and 5 hours of overtime pay.

She pays 8% of her Taxable Income to the Federal Government and 12% to the Provincial Government.

She has $25/week put into a Registered Retirement Saving Plan (RRSP) by her payroll department which is untaxed. (She pays 4.95% of her gross pay into the government retirement plan (CPP). And she has 1.89% of her gross deducted for Employment Insurance (EI).

She pays $12 a week for parking that comes off her pay.

Calculate her Net Pay by **completing** a Net Pay Template. (10 marks)

2. Allyssa worked the following hours last week:

M	T	W	Th	F	SA	Su
8	6	10	0	10	8	5

Her *regular* rate of pay is **$14.25** / hour. She gets overtime rate of pay of 'time-and-a-half', 1.5 times her regular pay, after **8** hours in any day.

Calculate Allyssa's **Gross** Pay for the week. (4 marks}

3. Convert the following (use the unit factor method preferably):

a. 7.3 kilometres [km] = _____ metres [m]

b. 750 milligrams [mg] = _____ grams

c. 68 inches [in] = _____ ft _____in

d. **BONUS**. Terry is exactly 23 years old. How many seconds has she lived? (assume 365.25 days in a year)

4. Solve the proportions for the unknown amount:

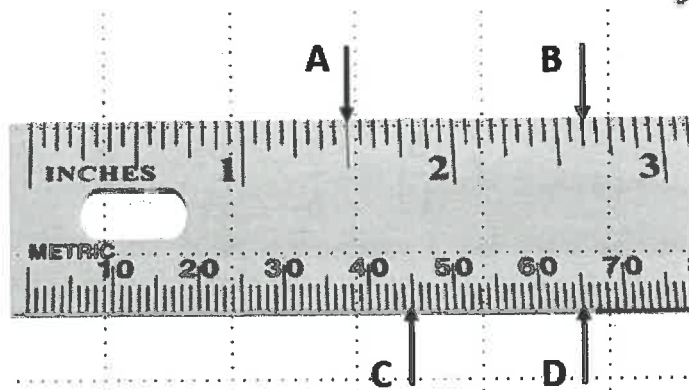a. $\dfrac{8}{5} = \dfrac{n}{30}$

b. $\dfrac{5}{12} = \dfrac{n}{6}$

c. $\dfrac{8}{5} = \dfrac{14}{x}$

d. If 5 bananas cost $7, then calculate how much 22 bananas will cost?

5. **Problem Solving**. Mike has four friends. His mom says he is allowed to invite over **only three** of the four for a party. Determine how many different groups of friends Mike can possibly invite.

'**Determine**' means show how you got the answer. It may not always be numbers! Could be a diagram, list, logic, ….Math is *not* just stupid numbers

6. State the measure indicated by

A: _____

B: _____

C: _____

D: _____

Bonus Questions

State the sum (ie: *add them all up*) of all the counting numbers from 1 to 50.

*'State' means just give an answer, you may want to show work, but you do not have to. Showing your work might get you part marks though**

BONUS Manually Multiply: Show work

$27 \times 55 =$

$2.15 \cdot 66 =$

Do you remember this stuff?

Not on Quiz

BONUS Manually Divide: Show work using the standard algorithm.

$$350 \div 14$$

Simplify (Manually or calculator):

$$\frac{2}{3} * \frac{4}{5} =$$

$$\frac{1}{5} * \frac{5}{9} * \frac{9}{10} =$$

Do you remember this stuff? Not on Quiz

NET ('*TAKE HOME*') PAY CALCULATION TEMPLATE

Use the template for the normal and typical calculations,
you may want to make some minor adaptations in some cases

Regular Pay		Pay Rate X Hours
O/T Pay		
Commission (% of sales)		
GROSS INCOME =		
Non-Taxable Deductions ↓:		
– RRSP Contribution	–	
– Union Dues	–	
– Company Pension Contribution	–	
TAXABLE INCOME =		
Income Taxes ↓:		
–Taxes Provincial @ ___%	–	Tax rate(s) X Taxable Income
–Taxes Federal @ ___%		
Taxable deductions↓		
–CPP Contribution ___%	–	% of *Gross* Income
–EI Contribution ___%	–	% of *Gross* Income
–Parking	–	
–Coffee Fund	–	
–Charity Donation	–	
Total Income Tax and Taxable deductions		
NET PAY:		Weekly? Bi-Weekly? Monthly?