English & Math
COMBO CLASS

Name:_____ Date:_____

Use the dictionary/thesaurus for unfamiliar words.

Try to complete most of the booklet during class time.

A-level students must answer the "advanced/optional" sections.

Always ask questions!
Do not disturb other students.
You must write a composition every week.

Marks are entered into the "Progress Report".

Remember: You will get an "A" if you complete all your classwork/homework with only a few mistakes. However, you will get an automatic "D" if: you do not write a composition: you guess on your math work; you remove pages; or you continuously disturb other students.

Teacher/Parent Comments:

_____

_____

If you require scheduling, registration, or payment information, call/text: **(416) 737-7285** or email: **info@juku.ca**
For help with the JUKU homework, email: **ineedhelp@juku.ca**

SPELLING CHALLENGE

1) Try to circle the correctly spelled word. Do not look at the answers!
2) Check your answer with the answers at the bottom.
3) Write the correctly spelled word in the last column.

	a	b	c	
1	quotient	qwotiont	quotiant	
2	remaneder	remmainder	remainder	
3	ilusion	illusion	ellusion	
4	reality	realety	realaty	
5	feable	feeble	feble	
6	frajile	fraggile	fragile	
7	exceed	ecseed	exseed	
8	sooperimpose	superimpose	superempose	
9	hazard	hasard	hazzard	
10	dangerus	dangerouse	dangerous	
11	recicle	recyccle	recycle	
12	enfironmental	environmental	enviornmental	
13	spontaneous	spuntaneous	spontanious	
14	prompting	promptting	prompteng	
15	leggible	legible	leggible	
16	decipher	desipher	decifer	
17	seclouded	secludead	secluded	
18	remoat	remote	remaot	
19	peninsula	penensula	peninsule	
20	archaic	arkaic	archake	

answers: acbab/cabac/cbaab/acbaa

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Word List Practice

1. Match each list word on the left with its proper synonym or definition.

quotient	done without planning
illusion	weak
feeble	a danger or risk
exceed	to put to use again
hazard	land surrounded by water on 3 sides
recycle	solution when two numbers are divided
spontaneous	able to be read
legible	isolated
secluded	an appearance that fools the senses
peninsula	to be greater than

2. Complete these sentences using the list words from above. Use each word only once.

Our _____ decision to get married surprised everyone.
His handwriting was so messy it was barely _____.
Only 5 people lived on the _____ island in the Atlantic.
The _____ of 8 divided by 2 is 4.
The old man was very frail and _____.
The object in the roadway posed a _____ to motorists.
A responsible person should _____ all glass and paper products.
Italy juts out into the water and is considered a _____.
We must not _____ our daily limit of water.
She was under the _____ that she was beautiful.

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Correcting Run-on Sentences

Run-on sentences are a big problem for many writers. They occur when a group of sentences is not separated by punctuation such as periods, commas, and question marks.

Run-on: My brother and I look alike we are not the same age he is two years older than me we have much in common.

Corrected: My brother and I look alike. We are not the same age. He is two years older than me. We have much in common.

A. If the sentence is a run-on, write "r" in the blank. If it is not, write "c" in the blank.

r	I need my shots they are necessary.	____	The men jumped. The women screamed.
____	Baseball is a great game.	____	The frog jumped out of the basket.
____	The king made a regal appearance.	____	We must begin now.
____	Make me an offer that I can't refuse.	____	The toad jumped it had strong legs.
____	He has two brothers they are nice.	____	We will take a break after lunch.
____	Books are useful if you know how to read.	____	Where are my glasses I know I had them.
____	My dad is a plumber he fixes drains.	____	What is the matter? You look gloomy.
____	We need to eat veggies they are healthy.	____	My mom baked bread it smells yummy.
____	Bill has an artificial leg. It looks real.	____	We can neither jump nor run.
____	We can sell ham, eggs, and sausages.	____	The disk is full. We must erase material.

B. Choose 5 of the run-on sentences from above. Write the sentences correctly below.

1. _____
2. _____
3. _____
4. _____
5. _____

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Parallel Sentence Construction

Sentences often contain a list of items or terms. It is very important that these items or terms are arranged in a similar form. Balance is the key. Here is an example of a well-balanced or parallel sentence (1), and another which is inconsistent (2).

(1) Yes: Bill wanted to play soccer, make cookies, and send letters.
(2) No: Bill wanted to play soccer, make cookies, and he needed to send letters.

Choose the **parallel sentence** in each of the examples below.

1.
a) The boy wanted to eat pears, apples, and berries.
b) The boy wanted to eat pears, along with apples and berries.
c) The boy wanted to eat pears, apples, and he liked berries.

2.
a) Joe wanted to make money, gain friends, and be the host of parties.
b) Joe wanted to make money, gain friends, and host parties.
c) Joe wanted to make money, he valued friends and hosting parties.

3.
a) What's innovative, intense, time-tested, and develops leaders?
b) What's innovative, intense, time-tested, and reliable?
c) What's innovative, intense, time-tested, and makes sense?

4.
a) Smoking causes cancer, heart disease, and may complicate pregnancy.
b) Smoking causes cancer, heart disease, and emphysema.
c) Smoking causes cancer, heart disease. and will contribute to shortness of breath.

5.
a) We need to buy supplies, make banners, and sell popcorn.
b) We need to buy supplies, make banners, and popcorn.
c) We need to buy supplies, make banners, and begin selling popcorn.

Prefixes

Important: The prefixes un- and dis- usually mean "not" and therefore they change the meaning of the base word to its opposite. The prefix re- usually means "again."

***For example*:**

cover ---------- uncover

please ---------- displease

make ---------- remake

Prefix Exercise

Using the prefixes **un-, dis-, and re-** see how many new words you can create with the base words provided. *Remember*: your new word must be a real one. Not all of the prefixes will fit each base word. If you are unsure, look in the dictionary.

	un-	**dis-**	**re-**
do	undo		redo
place			
visit			
play			
sure			
construct			
cover			
confirm			
bound			
qualified			
interested			

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Spelling Practice

I love annamals (1). I love the kind I saw when I was wadeing (2) in that turqose (3) lake in the country. I adore the way the cattel (4) bellow in the fields in the evening when the sun has dipped below the horrison (5). I love it when the sparows (6) sing hartily (7) to greet the day. I love those spring days when one can stretch out lazely (8) under an elm and studie (9) the sky and the new blosomms (10) on the trees.

The underlined words above are not spelled correctly. Look at the words in each row below. The number at the beginning of each row matches the number of an underlined word. Choose the correct spelling of each word.

1.	animels	annimals	aminals	animals
2.	wayding	wadding	wading	waiding
3.	turquoise	turkose	turqoise	turcoise
4.	cattal	caddle	cattle	cattul
5.	hoorizon	horizon	horison	horizone
6.	sparos	sparoses	sparrows	spparrows
7.	heartily	hardily	haertily	heartilly
8.	lasily	lazzily	lasely	lazily
9.	study	studdy	sttudie	stoody
10.	blossomes	blossoms	bossoms	bloosoms

Composition

Venice Part II

Venice is a magnificent place, yet it does have its problems. Pollution from industry threatens aged buildings and art treasures. Most troubling of all is that the city is sinking. Not only is its art in danger, but also are the homes of its residents. Diverted rivers, channels dug deeper for mainland industry, waters blocked by nearby fish farms, and rising seas (from melting glaciers and global warming) have contributed to its slow, downward movement into the water. Frequent floods add to the threat of destruction. Money from concerned countries, including Italy itself, is now flowing in to "save Venice." The funds have been used to restore the works of art and architecture that celebrate Venice's glorious past. To keep out high water, floodgates and other devices are being designed and installed.

In 1975, experts predicted that half of the city's statues and paintings would be gone within 30 years. Over 20 years have passed, and the treasures appear safe. The city thrived for 1000 years and may continue to do if the multinational effort continues to save this jewel of Italy.

1. In your own words, explain the problems Venice is facing.

2. Describe possible solutions to these problems.

3. Do you think that contributing to the "save Venice" cause is worthwhile given all the problems that the world faces? Why or why not?

4. Fact or opinion?
   i) Venice is a doomed city.
   ii) Venice is 1000 years old.

Position Paragraphs

Consider the statement which follows. On a separate paper, jot down some arguments in favor of the statement (pros), and some against (cons). Do not let your personal point of view on the topic bias your response; the exercise involves seeing both sides of an issue. You should try your best to be informative and persuasive whether you are arguing for or against.

Statement: We should rid the world of countries and instead live as one human nation.

Pro: _____

Con: _____

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Word Fun

Try to make 12 words with these letters. No letter may be used more than once in any given word. *~~1 TazPoint awarded for every word of 5 or more letters.~~

c k g x i p n u

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____

Adding Three Fractions (Simple Ones)

Finding the LCM $\frac{2}{3} + \frac{1}{4} + \frac{1}{12} = \_\_\_$

1) look for the lowest common multiple (lcm)
2) make the denominator of each term equal to the lcm.

$$\left(\frac{4}{4}\right)x\frac{2}{3} + \left(\frac{3}{3}\right)x\frac{1}{4} + \frac{1}{12} = \frac{8}{12} + \frac{3}{12} + \frac{1}{12} = \frac{12}{12} = 1$$

Addition:

	Step 1	Step 2	Answer (Simplified)
$\frac{1}{2} + \frac{3}{4} + \frac{5}{12} =$	What is the lcm? =		=
$\frac{3}{5} + \frac{1}{3} + \frac{4}{15} =$	What is the lcm? =		=
$\frac{1}{3} + \frac{3}{7} + \frac{2}{21} =$	What is the lcm? =		=
$\frac{3}{2} + \frac{2}{4} + \frac{3}{8} =$	What is the lcm? =		=
$\frac{1}{2} + \frac{3}{5} + \frac{2}{3} =$	What is the lcm? =		=
$\frac{3}{5} + \frac{3}{4} + \frac{2}{8} =$	What is the lcm? =		=

Addition and Subtraction (same procedure)

$\frac{4}{5} + \frac{2}{3} - \frac{2}{15} =$ What is the lcm? =

$\frac{1}{2} + \frac{2}{3} - \frac{1}{6} =$ What is the lcm? =

$\frac{2}{3} + \frac{3}{7} - \frac{5}{21} =$ What is the lcm? =

$\frac{4}{5} - \frac{2}{4} - \frac{3}{8} =$ What is the lcm? =

Adding Three Fractions (More Difficult Ones)

For Advanced Students: Do these questions if you are an A-level student.

Sometimes it is not too easy to find the lcm when there are 3 or more fractions. It will be easier to find the lcm for any two fractions, then use that number to find the lcm with the other denominators.

Ex. $\frac{2}{3} + \frac{1}{5} + \frac{1}{12} = \_\_\_\_$

1) look at the 1st and 3rd fraction because 3 is a factor of 12. The lcm is 12.

2) Now, compare 12 to 5. The lcm is 60.

3) Change all the denominators to 60.

$$\left(\frac{20}{20}\right)x\frac{2}{3}+\left(\frac{12}{12}\right)x\frac{1}{5}+\left(\frac{5}{5}\right)\frac{1}{12}=\frac{40}{60}+\frac{12}{60}+\frac{5}{60}=\frac{57}{60}=\frac{19}{20}$$

Addition:

	Step 1	Step 2	Step 3	Answer (Simplified)
$\frac{1}{3} + \frac{2}{5} + \frac{1}{18} =$	LCM for the: 1st two / all three fractions		=	=
$\frac{3}{4} + \frac{1}{3} + \frac{2}{8} =$	LCM for the: 1st two / all three fractions		=	=
$\frac{1}{5} + \frac{3}{7} + \frac{2}{14} =$	LCM for the: 1st two / all three fractions		=	=
$\frac{1}{5} + \frac{2}{4} + \frac{3}{10} =$	LCM for the: 1st two / all three fractions		=	=
$\frac{1}{6} + \frac{3}{5} + \frac{2}{7} =$	LCM for the: 1st two / all three fractions		=	=
$\frac{2}{5} + \frac{2}{3} + \frac{2}{20} =$	LCM for the: 1st two / all three fractions		=	=

Addition and Subtraction (same procedure)

$\frac{3}{5} + \frac{2}{6} - \frac{2}{15} =$ _____

$\frac{1}{6} + \frac{1}{5} - \frac{1}{18} =$ _____

$\frac{2}{4} + \frac{4}{9} - \frac{5}{18} =$ _____

$\frac{3}{14} - \frac{3}{4} + \frac{3}{7} =$ _____

Adding Three Fractions (More Difficult Ones)

For Advanced Students: Do these questions if you are an A-level student.

Sometimes it is not too easy to find the lcm when there are 3 or more fractions. It will be easier to find the lcm for any two fractions, then use that number to find the lcm with the other denominators.

Ex. $\frac{2}{3} + \frac{1}{5} + \frac{1}{12} = \_\_\_\_$

1) look at the 1st and 3rd fraction because 3 is a factor of 12. The lcm is 12.

2) Now, compare 12 to 5. The lcm is 60.

3) Change all the denominators to 60.

$$\left(\frac{20}{20}\right)x\frac{2}{3} + \left(\frac{12}{12}\right)x\frac{1}{5} + \left(\frac{5}{5}\right)\frac{1}{12} = \frac{40}{60} + \frac{12}{60} + \frac{5}{60} = \frac{57}{60} = \frac{19}{20}$$

Addition:

	Step 1	Step 2	Step 3	Answer (Simplified)
$\frac{3}{8} + \frac{3}{4} + \frac{1}{5} =$	LCM for the: 1st two / all three fractions	=		=
$\frac{3}{10} + \frac{1}{5} + \frac{2}{9} =$	LCM for the: 1st two / all three fractions	=		=
$\frac{1}{5} + \frac{3}{20} + \frac{2}{3} =$	LCM for the: 1st two / all three fractions	=		=
$\frac{2}{5} + \frac{2}{4} + \frac{3}{10} =$	LCM for the: 1st two / all three fractions	=		=
$\frac{2}{15} + \frac{3}{5} + \frac{2}{7} =$	LCM for the: 1st two / all three fractions	=		=
$\frac{2}{5} + \frac{2}{6} + \frac{2}{20} =$	LCM for the: 1st two / all three fractions	=		=

Addition and Subtraction (same procedure)

$\frac{3}{12} + \frac{2}{6} - \frac{2}{4} =$ _____

$\frac{1}{5} + \frac{1}{6} - \frac{1}{12} =$ _____

$\frac{2}{5} + \frac{3}{9} - \frac{5}{18} =$ _____

$\frac{3}{4} - \frac{2}{14} + \frac{3}{7} =$ _____

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Remember: When an even number of negatives are side-by-side, the answer is positive. eg. 2= - - - - 2 4 = - (-4)
When you are multiplying or dividing two negatives, the answer will be positive. eg. - 2 x - 4 = 8 (- 4) / (- 2) =2

TRUE OR FALSE:

1)	T	3 = - - - - 3	5)		3 = + - + - + - 3	9)		- - 2 = - 2
2)		-3 = + -3	6)		2 +2 = 2 - -2	10)		- 1 -1 = 1 + 1
3)		3 = - (-3)	7)		3 - (-2) = 3 +2	11)		-2 - - 2 = -2 +2
4)		4 = + - 4	8)		-1 = + -1	12)		- - 2 = + 2

ADDITION

13) 3 + -4 = _____
14) 9 + -4 = _____
15) 6 + 3 = _____
16) -4 + 2 = _____
17) -4 + 2 = _____
18) 3 + 4 = _____
19) 3 + -4 = _____
20) 8 + 2 = _____
21) -9 + 3 = _____
22) -7 + 2 = _____

SUBTRACTION

23) 5 - 3 = _____
24) 9 - 3 = _____
25) 8 - 3 = _____
27) -2 - 2 = _____
28) 3 - 2 = _____

ADDITION OR SUBTRACTION:

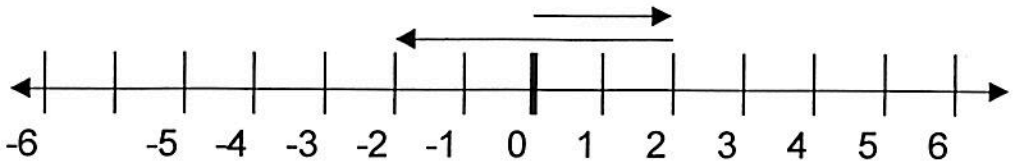
29) 3 - 3 = _____
30) -6 - -5 = _____
31) -4 + -4 = _____
32) 2 + 3 = _____
33) -9 - 2 = _____
34) -5 - 3 = _____
35) 8 + 4 = _____
36) -2 + 2 = _____
37) -4 + -4 = _____

MULTIPLICATION OR DIVISION: Remember: two negatives equal a positive:

38) 3 X 3 = _____
39) - 3 X - 3 = _____
40) - 5 X 6 = _____
41) - 3 X -1 = _____
42) 5 X 2 = _____
43) - 5 X - 2 = _____
44) + (-1) X - 2 = _____
45) - (- 2) X - 5 = _____
46) 12 ÷ - 6 = _____
47) - 24 ÷ - 8 = _____
48) 12 ÷ - 6 = _____
49) - 49 ÷ 7 = _____

Integers and the Number Line

(+2) + (-4) means move two integers to the right followed by 4 integers to the left. Ans. -2



Use the number line to solve the following additions - match the answers:

(+3) + (-5)	=	**-12**
(-6) + (+6)	=	**-13**
(-7) + (-7)	=	**-14**
(-7) + (-5)	=	**0**
(+4) + (-9)	=	**-5**
(-4) + (-9)	=	**-2**

(+3) + (-4) + (-3)	=	**-3**
(+4) + (+2) + (-1)	=	**14**
(-4) + (+2) + (-1)	=	**-4**
(+7) + (+2) + (+5)	=	**10**
(+5) + (-3) + (-1)	=	**5**
(+2) + (+4) + (+4)	=	**1**

Find the missing integer:

(-6) + (-____)	=	**-10**
(-8) + (+____)	=	**-3**
(+3) + (-____)	=	**-4**
(+8) + (-____) + (-3)	=	**3**
(-8) + (+____) + (-1)	=	**-5**
(-8) + (+____) + (-2)	=	**-6**

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Note: When you add a negative number (+ -2, + -4) or subtract a postitive number (-3, -5) the original number decreases. Subtracting a negative number is the same as adding the number (- -4 is the same as + 4, - -9 = 9)

TRUE OR FALSE:

1) ☐ - -5 = 5
2) ☐ -5 = + -5
3) ☐ 5 = - (-5)
4) ☐ 4 = + -4
5) ☐ - - 3 = + 3
6) ☐ 2 +2 = 2 - -2
7) ☐ 3 - (-2) = 3 +2
8) ☐ -1 = + -1
9) ☐ - - 2 = - 2
10) ☐ - 1 -1 = 1 + 1
11) ☐ -2 --2 = -2 +2
12) ☐ - - 2 = + 2

ADDITION

13) 9 + 4 = _____
14) 9 + -4 = _____
15) 6 + 3 = _____
16) -4 + 2 = _____
17) -4 + 2 = _____
18) 5 + 4 = _____
19) 5 + -4 = _____
20) 8 + 2 = _____
21) -9 + 3 = _____
22) -7 + 2 = _____

SUBTRACTION

23) 5 - 3 = _____
24) 9 - 3 = _____
25) 8 - 3 = _____
27) -2 - 2 = _____
28) 3 - 2 = _____

ADDITION OR SUBTRACTION:

29) 2 - 3 = _____
30) -6 - -5 = _____
31) -4 + -4 = _____
32) 2 + 3 = _____
33) -9 - 2 = _____
34) -5 - 3 = _____
35) 8 + 4 = _____
36) -2 + 2 = _____
37) -4 + -4 = _____

MULTIPLICATION OR DIVISION: Remember: two negatives equal a positive:

38) 2 X 2 = _____
39) -2 X -2 = _____
40) -5 X 6 = _____
41) -3 X -1 = _____
42) 5 X 2 = _____
43) -5 X -2 = _____
44) -1 X -2 = _____
45) -2 X -5 = _____
46) 36 ÷ -6 = _____
47) -24 ÷ -8 = _____
48) 12 ÷ -6 = _____
49) -49 ÷ 7 = _____

Word Problems (Do not ONLY put down the answer. Show your work):

1) The temperature in Vancouver is 6.4°C. In Winnipeg it is 11.5 °C cooler.
What is the temperature in Winnipeg?

2) The temperature in Toronto is - 8.2°C. In Moosenee it is 21.1°C cooler.
What is the temperature in Moosenee?

3) The temperature in Hamilton is -4.4°C. In Lethbridge it is -8.25 °C.
What is the difference in temperatures?

4) Deepan dives from a 13.2 m cliff. The water is 3.6 m deep.
What is the distance from the top of the cliff to the bottom of the sea?

5) Hamza owes the bank $52 dollars (loan). He pays the bank 23 dollars.
A week later the bank loans him another $25. How much does he owe the bank?

INTEGERS (ADDING 3 NUMBERS)

You have to work down each column. Try to only use your "BRAIN".
Once you have 3 wrong, nothing else will be marked. Be careful!

	+12	-14	+3	-17	-8	+
	-2	-1	-16	-11	-4	+
+7						
+1						
-6						
+9						
+12						
-1						
-15						
-12						
-1						
+11						
# Correct						=

Total Correct

LEVEL S1-7

	+2	-6	+8	+8	+6	+
	-7	+8	+19	+2	-7	+
-8						
-5						
-6						
-12						
+4						
-20						
-9						
-1						
-13						
+21						
# Correct						=

Total Correct

☺ OPTIONAL:
FOR A-LEVEL OR
FAST STUDENTS.

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Word List Exercise

Have some fun. Write a short story which uses all the words from this week's Word List. Well written and highly original stories will be placed on the achievement board. Remember to write in **full sentences** and to **double check** your work for spelling mistakes.

quotient illusion feeble exceed hazard recycle spontaneous
legible secluded peninsula

Write an exceedingly excellent story!