C-What is the relation between mathema S. lulmed in the mether to me her to	nothematics they are interrelate
2- Say if the following statements are to	rue or false: (1.5 pts)
A - Mathematics is a branch of science	Sul 1
B- Mathematical operations study only no	umbers
C- Theory is part of mathematics	ul
3-Find in the text synonyms of the follo	wing words (1 5 -ts)
Studies	Rising=inchlasing
Addition=lollection	The state of the s
mell reflex "Vigilation" Leasing Textilation	min men out pitt percent of the need guitaines
4- Find in the text words that belong to	the following: (3pts)
singular	plural Both (sing and plur)
chief Min ce my	plural Both (sing and plur)  mathematics.  analysis.
. Symety . A. Albuill	is
5- Re-order the following words to get :	a coherent sentence: (5 pts)
1-Study/ the/ between/ sides/ a/ shap	e/ and/ the/ space/ is/ geometrical/ of/ and/
relationship/ of/ the/ cooperators/ and tell	
be way as the study of the	e, relationship between, space and
he Mold and the amples a 21 Agrithemitic is algebra the operations	of numbers and
Algebra is the arithemity	c el grations of numbers
6- Fill in the gaps with the following wo	rds: (5pts)
Space/ mathematics/ geometer/ volumes/	mathematician/ geometry/ areas/ numbers.
Table 1 and	the concerned with questions of shape, size,
relative position of figures and the pr	operties of Alace Geometry arose in
mumbers. of early cultures as a bo	dy of practical knowledge concerning length
With the use	of formal mathematics as a science. Theories of
i naies, Archimedes developed ingeniou	is techniques for calculating Volumes and
and mapping the particle of th	position of stars and planets and describing the
the field of geometry is called a Albern	elestial body. Amathematician who works in
at their of goomen's cancel a M. J. Em	at A l / L

University of Bejaia	
Department 2nd year Technolo	gy

Full	na	me:	 	 				•			•	
grou												

## Final English examination

## Part one: Reading and Comprehension

The word "mathematics" comes from the Greek (mathéma), which means in ancient Greek learns, what one gets to know, also study or science, and in modern Greek just lesson.

The word "mathematics" in Greek came to have the narrower and more technical meaning "mathematical study". Its adjective is "mathématicos", meaning related to learning or studious. Before 1700, the term "mathematics" meant "astrology" rather than "mathematics".

The evolution of mathematics might be seen as an ever-increasing series of abstractions or alternatively an expansion of subject matter. The first abstraction was the one of numbers; the realization that the collection of two common elements, namely quantity of their numbers.

In addition of recognizing how to count objects, prehistoric peoples recognized also how to count abstract quantities, like: time-days, seasons, and years. Naturally followed by elementary arithmetic (addition, subtraction, multiplication and division).

Mathematics can be subdivided in the study of quantity, structure, space and change (e.i. arithmetic, algebra, geometry and analysis). In addition to these main concerns, there are also subdivisions dedicated to exploring links from the heart of mathematics to other fields: to logic, to set theory, to the empirical mathematics of various sciences (applied mathematics), and more recently to the rigorous study of uncertainty.

The study of quantity starts with numbers, and arithmetical operations on them. Here are the types of numbers that exist in mathematics: 1, 2, 3... (Natural numbers), -2, -1, 0, 1... (Integers), -2, 2/3, 1 (Rational numbers), -e2, 2 (real numbers), 2, I, -2+3i, 2e (complex numbers).

Many mathematical objects, such as sets of numbers and functions, exhibits internal structure as a consequence of operations or relations that are defined on the set. Mathematics then studies properties of those sets that can be expressed in term of that structure; for instance number theory studies properties of the set of integers that can be expressed in term of arithmetic operations.

## Part two: Interpreting

1-Read the text and answer the following questions: (4 pts)

A-Give a brief definition of mathematics. Mathematics has & different meanings

15th one of means fearning studies 12th one it means mathematics

B-What are the branches of mathematics? Studies of numbers

There are 4. braches of Mathematics. a sixthematics, as Iglino,

grometry and analysis.