

NAME: \_\_\_\_\_ DATE: \_\_\_\_\_  
EXAMS: Mathematics Junior Certificate

# EXAMS

## Junior Certificate

### Mathematics

It is not necessary to carry out all the activities contained in this unit.

<b>Theme</b>	<b>Exams: Mathematics</b>	
<b>Language focus</b>	Key vocabulary for exam questions, type and structure of questions.	
<b>Learning focus</b>	Understanding the instructions on an exam paper, reading questions for detail	
<b>Learning Support</b>	Suitable for all students as part of exam preparation.	
<b>Language Support</b>		
<b>Subject class</b>		
<b>Language Level</b>	<b>A1 – B1</b>	
<b>CONTENTS</b>		
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## Keywords

The keywords which are found in Mathematics exam papers are as follows:

### Instructions

calculate  
find  
estimate  
solve  
prove  
evaluate  
express  
simplify  
construct  
measure  
factorise  
hence

### Shape and position

midpoint  
equiangular  
triangle  
angles  
rectangular  
opposite  
higher  
sphere  
hexagon  
quadrilateral  
circle  
angle  
perpendicular  
congruent  
arc  
tangent  
intersects /  
intersection  
point  
internal  
nearest

line

### Measurement and calculation

cm  
metres  
maximum  
mins  
length  
rate  
equal  
cost  
sum  
breadth

### Mathematical terms

value  
equation  
decimal  
theorem  
subsets  
fraction  
coordinates  
number  
slope  
slant  
histogram  
cumulative  
rounding  
function  
surd  
elevation  
interval  
transformation  
simultaneous  
band

### Other terms

students  
athletes  
goals  
container  
journey  
hours  
duration  
invested  
per annum  
tax credits  
capsule  
diagram  
calculator  
correct  
shown  
scored  
otherwise  
obtained  
attempted  
places  
represent  
appropriately  
bales  
amounted  
sample  
agent  
carries  
travelled  
domain  
prize  
table  
visited

## SECTION A Understanding the language of questions

You must read exam questions very carefully. Here are some typical instructions from Mathematics exam questions. Read the text carefully and do the activities. If you are not sure about any words, check them and write a note or example to help you remember.

You must attempt all 6 questions

1 Tick (✓) the correct answer:

- a You must choose 6 questions
- b You should try to do all the questions
- c You are only allowed to do 6 questions

Each question is worth 50 marks.

Each question has three sections.

2 Read these two statements and answer the following questions:

a) How many parts are there in each question? \_\_\_\_\_

b) How many marks can you get for answering all the parts correctly? \_\_\_\_\_

3 What do the following words and phrases mean? Where do you usually find them on the paper? The first one is done for you.

		Meaning	Where you find this term
a	express your answer	<i>Write your answer in a particular way.</i>	<i>Algebra</i>
b	give your answer correct to (one) (two) decimal places		
c	simplify		
d	without the use of a calculator		
e	construct		
f	calculate		

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g	solve (the equation)		
h	factorise		
i	verify		
j	prove		
k	plot		
l	estimate		
m	evaluate		
n	given		
o	represent the information		

4 Write the opposites of the words below:

Word	Opposite
equal	
top	
negative	
lowest	
increase	
maximum	

### Answer Key

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1 b

2 a) 3

b) 50

3

a	express your answer	Write your answer in a particular form.	Algebra
b	give your answer correct to (one) (two) decimal places	Your answer must only use (one) (two) numbers after the decimal.	Arithmetic Algebra Geometry
c	simplify	Write the equation so that brackets are not used.	Arithmetic Algebra
d	without the use of a calculator	Do not use your calculator.	Arithmetic
e	construct	Draw (using instruments)	Geometry
f	calculate	Work out the value	Algebra
g	solve (the equation)	Find the value of the letter(s)	Algebra
h	factorise	Find the factors	Algebra
i	verify	Confirm	Algebra
j	prove	Show that this is correct.	Geometry
k	plot	Put some points that are given to you in the correct place on a graph.	Graphs
l	estimate	Read answers from a graph	Graphs
m	evaluate	Simplify and find the value of an expression.	Arithmetic Algebra
n	given	Information that is already on the paper so that you can do the question.	Geometry Algebra
o	represent the information	Work our the information and put it into a Venn diagram.	Sets

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Word	Opposite
equal	unequal
top	bottom
negative	positive
lowest	highest
increase	decrease
maximum	minimum