



Coimisiún na Scrúduithe Stáit  
State Examinations Commission

Leaving Certificate Examination, 2012  
Sample Paper

Mathematics  
(Project Maths – Phase 1)

Paper 2

Foundation Level

Time: 2 hours, 30 minutes

300 marks

Examination number
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Centre stamp
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Running total	
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For examiner	
Question	Mark
1	
2	
3	
4	
5	
6	
7	
8	
Total	

Grade
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## Instructions

There are **three** sections in this examination paper:

Section A	Concepts and Skills	100 marks	4 questions
Section B	Contexts and Applications	100 marks	2 questions
Section C	Area and Volume (old syllabus)	100 marks	2 questions

Answer **all eight** questions, as follows:

In Section A, answer:

Questions 1 to 3 and  
**either** Question 4A **or** Question 4B.

In Section B, answer Questions 5 and 6.

In Section C, answer Questions 7 and 8.

Write your answers in the spaces provided in this booklet. There is space for extra work at the back of the booklet. You may also ask the superintendent for more paper. Label any extra work clearly with the question number and part.

The superintendent will give you a copy of the booklet of *Formulae and Tables*. You must return it at the end of the examination. You are not allowed to bring your own copy into the examination.

A sheet of formulae will also be given to you by the superintendent.

Marks will be lost if all necessary work is not clearly shown.

Answers should include the appropriate units of measurement, where relevant.

Answers should be given in simplest form, where relevant.

Write the make and model of your calculator(s) here:









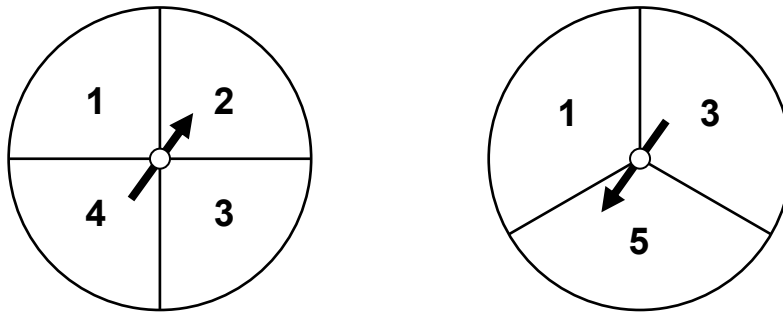


Answer Question 5 and Question 6 from this section.

**Question 5****(50 marks)**

A game at a festival involves two spinners. They are spun at the same time and the numbers added. The spinners are fair. (That is, the arrow is just as likely to stop in one sector as in any other.)

Players get a prize if they spin a total equal to four.



- (a) The table below is partly completed. It shows the total scores for the different ways the spinners could land. Complete the table.

		first spinner			
		1	2	3	4
second spinner	1		3		5
	3		5	6	
	5	6			

- (b) Sue plays the game once. Find the probability that she will get a total score of nine.

Answer: \_\_\_\_\_

- (c) Find the probability that Sue will win a prize, (that is, get a score of four).

Answer: \_\_\_\_\_







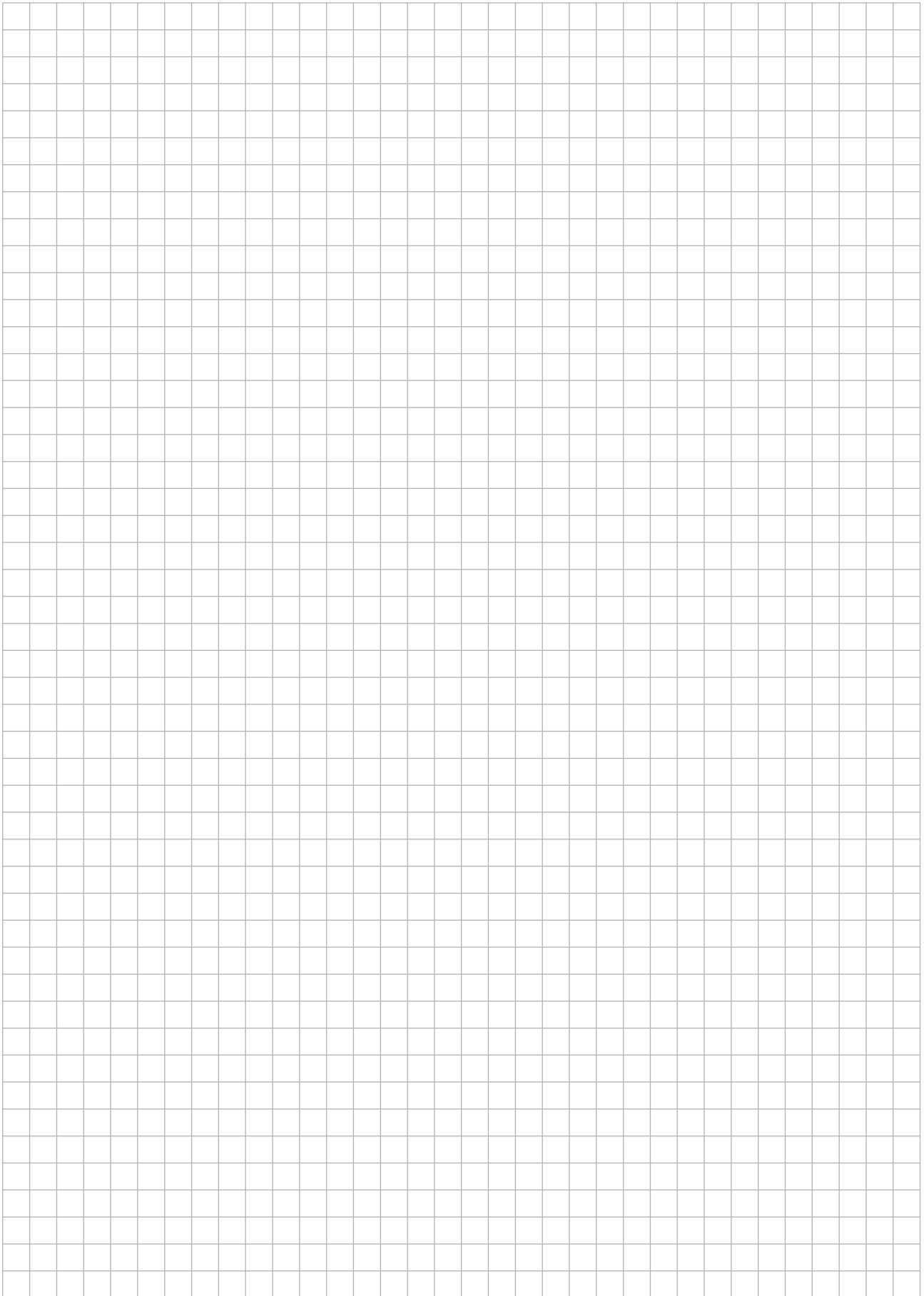




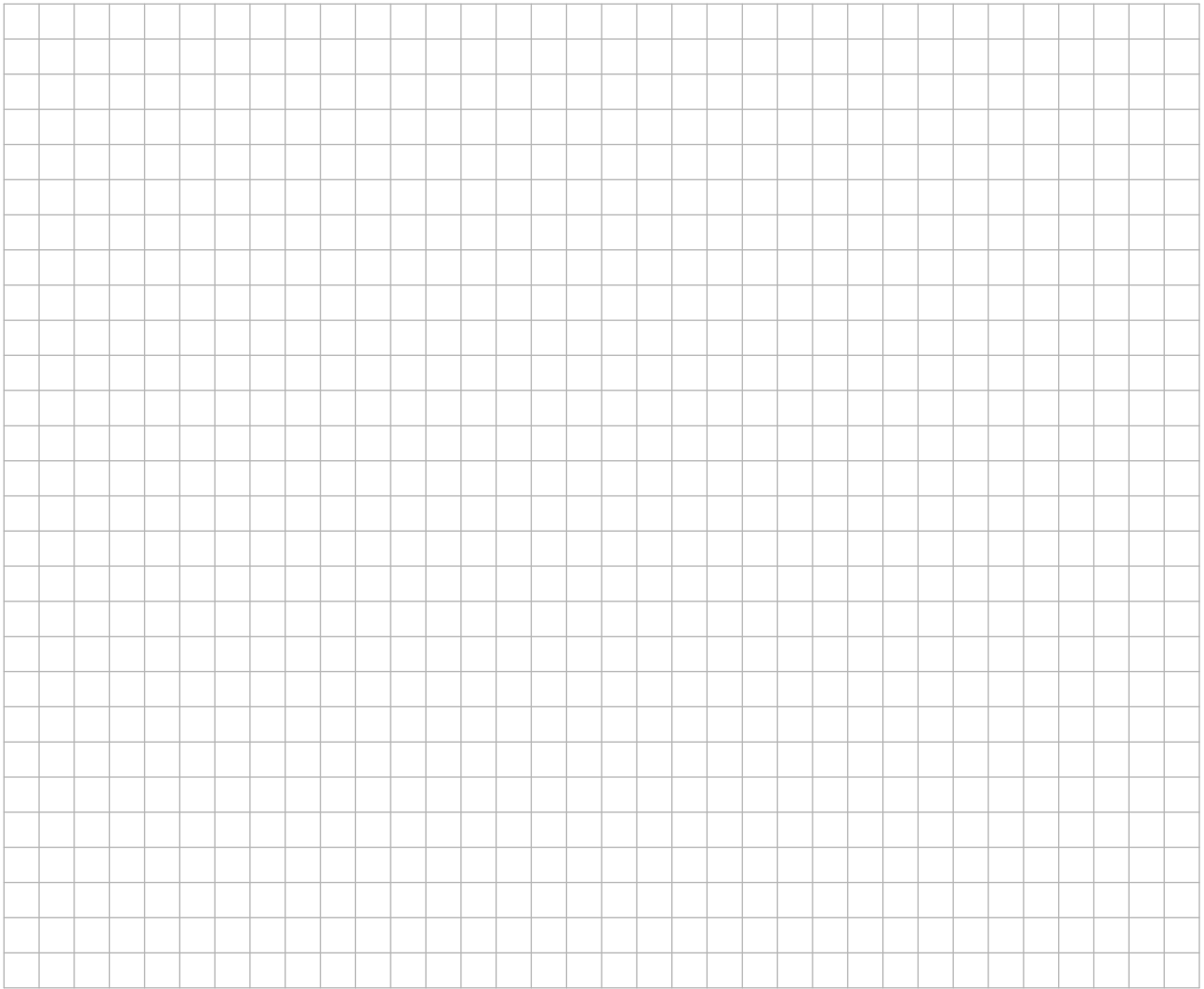




You may use this page for extra work.



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*Note to readers of this document:*

This sample paper is intended to help teachers and candidates prepare for the June 2012 examination in *Mathematics* under Phase 1 of *Project Maths*. The content and structure do not necessarily reflect the 2013 or subsequent examinations.

Questions 7 and 8 in Section C correspond to Questions 1 and 2 on Paper 2 of the previous syllabus. They will be similar in style and content to previous such questions, other than being presented in a format suitable for a question-and-answer booklet. On this sample paper, the corresponding questions from the 2009 examination have been inserted to illustrate.

For the examination of 2012, Paper 1 remains unchanged in both content and format.

Leaving Certificate – Foundation Level

## Mathematics (Project Maths – Phase 1) – Paper 2

Sample Paper, 2012

Time: 2 hours 30 minutes