

Project Maths Phase 1 Paper 2 Ordinary Level

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Project Maths Phase 1 Paper

Junior Certificate 2011 – sample paper Page 11 of 15 Project Maths, phase 1 Foundation Level Question 14 (suggested maximum time: 5 minutes) Mary and John have a set of red and white plastic strips of various lengths. These strips can be joined together with pins through small holes at their ends. 20

Mathematics (Project Maths - Phase 1)

Leaving Certificate 2012 – Sample Paper Page 4 of 15 Project Maths, Phase 1 Paper 2 – Foundation Level Question 2 (25 marks) The table below shows the amount of money spent by a group of students in one month on credit for their mobile phones. Amount spent in € 0 – 10 10 – 20 20 – 30 30 – 40 40 – 50

Mathematics (Project Maths - Phase 1)

Leaving Certificate 2012 – Sample Paper Page 10 of 19 Project Maths, Phase 1 Paper 2 – Ordinary Level. (b) The students decide to look at the heights of the males and the females in the class separately. The heights are given below: (i) Construct a back-to-back stem and leaf plot of the above data.

Mathematics (Project Maths - Phase 1)

Junior Certificate 2013 – sample paper Page 8 of 19 Project Maths, Phase 1 Paper 2 – Ordinary Level. Question 6 (Suggested maximum time: 10 minutes) A bag contains red disks, blue disks and white disks. In an experiment, each student in a class of 24 takes out a disk, records the colour and replaces it.

Mathematics (Project Maths - Phase 1)

Junior Certificate 2013 – sample paper Page 8 of 23 Project Maths, Phase 1 Paper 2 – Higher Level (d) John is conducting a survey on computer usage by students at his school. His questionnaire asks the same question. He plans to carry out his survey by asking the question to twenty first year boys on the Monday after the mid-term break.

Mathematics (Project Maths - Phase 1)

Project Maths, Phase 1 Paper 2 – Higher Level Question 1 (suggested maximum time: 20 minutes) (a) The diagram shows the tracks of an army tank. The tracks wrap around four wheels of radius 0.5 metres each. Calculate the length of the track needed to wrap around the four wheels. Give your answer correct to two decimal places.

Mathematics (Project Maths - Phase 1)

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Junior Certificate 2013 Page 3 of 19 Project Maths, Phase 1 Paper 2 – Higher Level Question 1
(Suggested maximum time: 10 minutes) Liam’s garden is in the shape of a square. It has four equal right-angled triangular lawns and a smaller square patio in the centre, as shown. (a) Find the length of the hypotenuse of one of the right angled

Mathematics (Project Maths - Phase 1)

Junior Certificate 2014 Page 7 of 19 Project Maths, Phase 3 Paper 1 – Higher Level Question 6
(Suggested maximum time: 10 minutes) Below are three containers, labelled 1, 2, and 3. Water is poured into each container at a constant rate, until it is full. 1 2 3

Mathematics (Project Maths - Phase 3)

Resources for teaching probability and statistics (from modular course 1) General activities on probability and statistics from the NCCA. Teaching and learning plan on using cards to teach probability - developed by teachers. Teaching and learning plan on using cards to teach probability - developed by teachers.

Project Maths | Junior Certificate

Junior Certificate 2014 – Sample Paper Page 8 of 23 Project Maths, Phase 2 Paper 2 – Higher Level
(iv) John is conducting a survey on computer usage by students at his school. His questionnaire asks the same question. He plans to carry out his survey by asking the question to twenty first-year boys on the Monday after the mid-term break.

Mathematics (Project Maths - Phase 2)

Junior Certificate 2013 – sample paper Page 2 of 19 Project Maths, Phase 3 Paper 1 – Higher Level
Instructions There are 14 questions on this examination paper. Answer all questions. Questions do not necessarily carry equal marks. To help you manage your time during this examination, a

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maximum time for each question is suggested.

Mathematics (Project Maths - Phase 3)

We've created links to all available Project Maths marking schemes (exam solutions) on this page. We've also included our model solutions to the official sample papers, as no official marking schemes are available for those. We have not included old marking schemes which focused purely on the old syllabus.

Marking Schemes - Project Maths | Leaving Cert Maths Grinds

Leaving Certificate 2014 - Sample Paper Page 5 of 19 Project Maths, Phase 3 Paper 2 - Higher Level Question 3 (25 marks) (a) Show that, for all $k \in \mathbb{R}$, the point $P(k, 4k^2 + 3k - 1)$ lies on the line $l_1: 34x + 10y - 10 = 0$. (b) The line l_2 passes through P and is perpendicular to l_1 . Find the equation of l_2 , in terms of k . (c) Find the value of k for which l_2 passes through the point $Q(3, 11)$.

Mathematics (Project Maths - Phase 3)

Leaving Certificate 2013 Page 5 of 15 Project Maths, Phase 2 Paper 1 - Ordinary Level page running Question 3 (25 marks) (a) The mean distance from the earth to the sun is 149 597 871 km. Write this number in the form $a \times 10^n$ where $1 \leq a < 10$ and n correct to two significant figures. (b) (i) Write each of the numbers below as a decimal correct to two decimal places.

Mathematics (Project Maths - Phase 2)

Page 2 Introduction The Higher Level Mathematics examination for candidates in the 24 initial schools for Project Maths shared a common question on Paper 1 with the examination for all other candidates. The marking scheme used for the common question was identical for the two groups.

Coimisiún na Scrúduithe Stáit State Examinations Commission

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Leaving Certificate 2012 Page 12 of 19 Project Maths, Phase 3 Paper1 – Higher Level Question 8 (50 marks) A company uses waterproof paper to make disposable conical drinking cups. To make each cup, a sector AOB is cut from a circular piece of paper of radius 9 cm.

Mathematics (Project Maths - Phase 3)

Mathematics (Project Maths – Phase 2) Paper 2 Ordinary Level Time: 2 hours 300 marks
Examination number For examiner Question Centre stamp Mark Question 1 11 2 12 3 13 4 14 5 15
6 16 Mark 7 8 9 Running total 10 Total Grade Instructions There are 16 questions on this
examination paper. Answer all questions. Questions do not necessarily carry ...

Mathematics (Project Maths - Phase 2) - MAFIADOC.COM

Junior Certificate 2011 Page 2 of 19 Project Maths, Phase 1 Foundation Level Instructions There are
nineteen questions on this examination paper. Answer all questions. Questions do not necessarily
carry equal marks. To help you manage your time during this examination, a maximum time for
each question is suggested.

Mathematics (Project Maths - Phase 1)

Leaving Certificate 2011 Page 8 of 19 Project Maths, Phase 2 Paper1 – Ordinary Level (b) Using the
value of z^4 , or otherwise, find the values of z , z^8 , z^{12} and z^{16} , and insert their values in the table
below. z^4

Mathematics (Project Maths - Phase 2)

Leaving Certificate 2014 Page 4 of 19 Project Maths, Phase 3 Paper 1 – Higher Level Question 2 (25
marks) Let $z_1 = 12i$, where $i^2 = -1$. (a) The complex number z_1 is a root of the equation $2z^3 - 7z^2 - 16z - 15 = 0$.
Find the other two roots of the equation. (b) (i) Let $w = z_1 + \bar{z}_1$, where \bar{z}_1 is the conjugate of z_1 . Plot
 z_1 , \bar{z}_1 and w on the Argand

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