



General Certificate of Secondary Education
2010

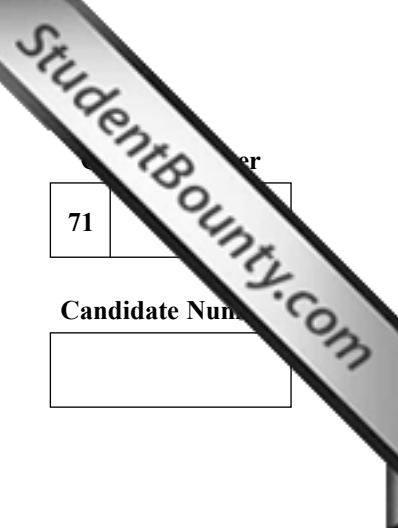
Mathematics

Module N1 Paper 2
(With calculator)
Foundation Tier

[GMN12]

TUESDAY 1 JUNE

10.30 a.m. – 11.15 a.m.



71	er
Candidate Number	
<input type="text"/>	

TIME

45 minutes.

INSTRUCTIONS TO CANDIDATES

Write your Centre Number and Candidate Number in the spaces provided at the top of this page.

Write your answers in the spaces provided in this question paper.

Answer **all twelve** questions.

Any working should be clearly shown in the spaces provided since marks may be awarded for partially correct solutions.

INFORMATION FOR CANDIDATES

The total mark for this paper is 44.

Figures in brackets printed down the right-hand side of pages indicate the marks awarded to each question or part question.

You should have a calculator, ruler, compasses, set-square and protractor.

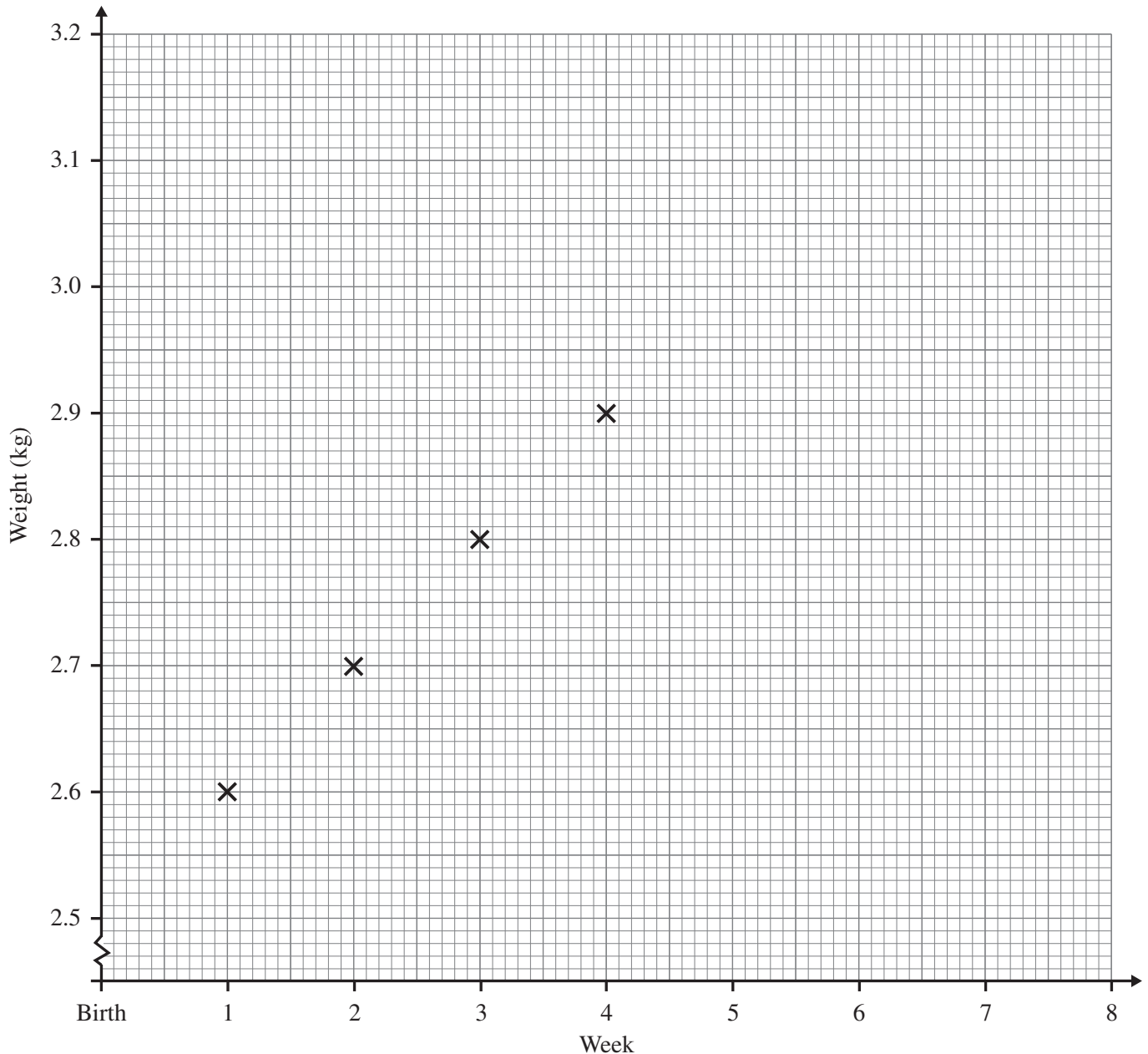
For Examiner's use only	
Question Number	Marks
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
Total Marks	

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- 2 Baby Jill was weighed at birth and at the end of each week, for the first eight weeks after her birth.
At birth she weighed 2.6 kg.

(a) Draw a line graph to show these results.
(The first 4 points have been plotted for you.)

Week	1	2	3	4	5	6	7	8
Weight (kg)	2.6	2.7	2.8	2.9	2.7	2.8	3.0	3.2



[2]

Examiner Only	
Marks	Remark

(b) Estimate Jill's weight after $1\frac{1}{2}$ weeks.

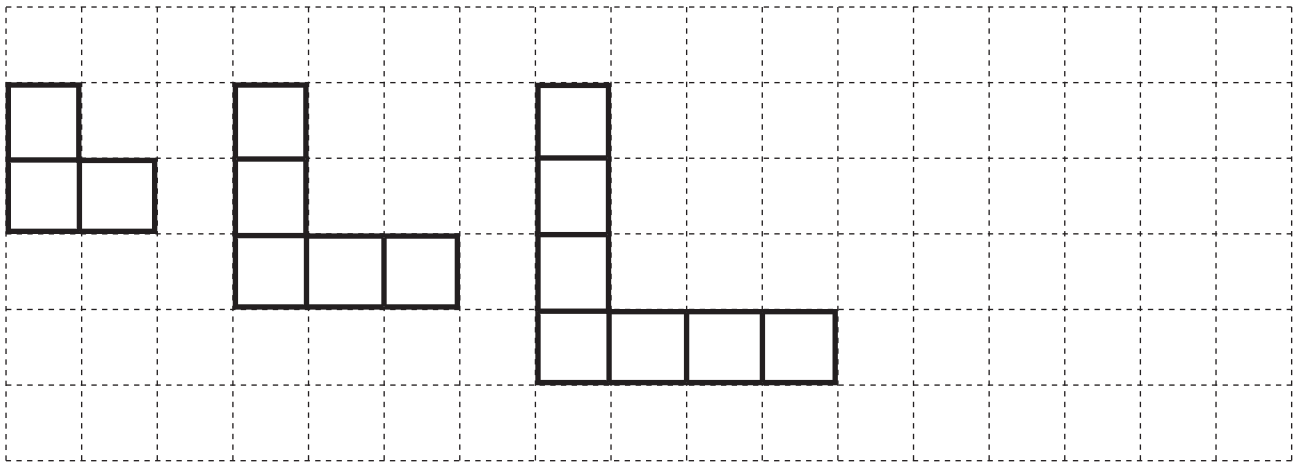
Answer _____ kg [1]

(c) During one of these weeks, Jill was ill. Which week do you think it was?
Explain your answer.

Answer Week _____ because _____ [1]

Examiner Only	
Marks	Remark

5 The sequence of shapes below is made with matches.



Shape 1

Shape 2

Shape 3

Shape 4

(a) Draw Shape 4 on the grid. [1]

(b) Complete the table for Shapes 4 and 5 [1]

Shape number	1	2	3	4	5
Number of matches	10	16	22		

(c) What pattern do you notice in the “Number of matches” row?

Answer _____ [1]

(d) Find the number of matches in Shape 12

Answer _____ [2]

Examiner Only	
Marks	Remark

6 6000 nails are packed into boxes.
Each box contains 64 nails when full.
As many boxes as possible are completely filled.

(a) How many **full** boxes are there?

Answer _____ [1]

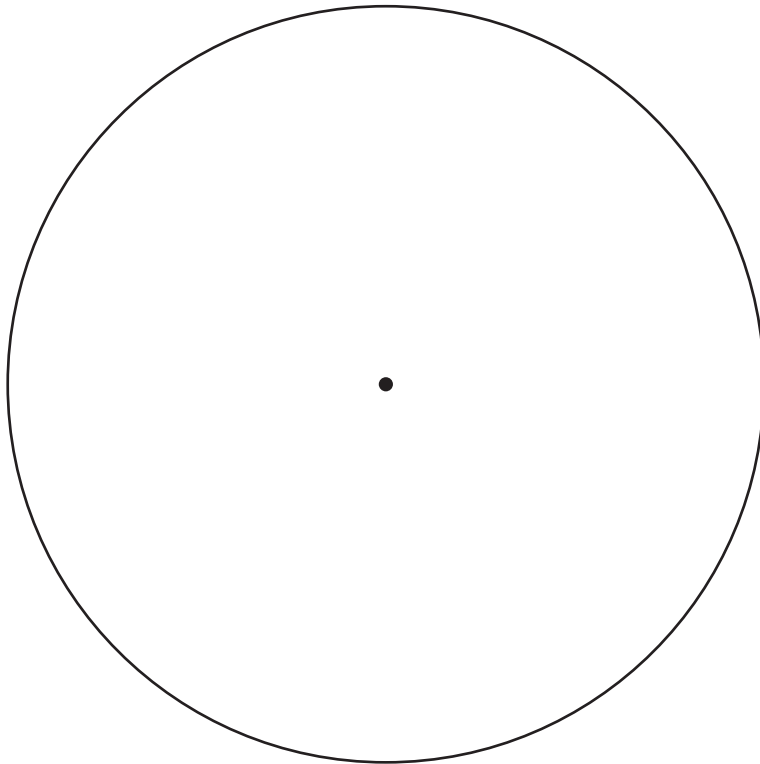
(b) How many nails are left over?

Answer _____ [1]

Examiner Only	
Marks	Remark

- (b) The coach divides his 40 players into four groups.
Complete the table and draw a pie chart to show this information.

Group	Number of players	Angle
Stick work	12	
Tackling	10	
Catching	6	
Shooting	12	



[4]

Examiner Only	
Marks	Remark

10 Find the volume of water in a full tank which measures 35 cm by 42 cm by 60 cm.

Examiner Only	
Marks	Remark

Answer _____ [3]

11



Cost: £119.90

An iPod costs £119.90
Dylan has already saved £35 towards the cost of the iPod.
He continues to save £7.50 per week.
How many complete weeks will it be before he can buy the iPod?

Answer _____ weeks [4]

12 Simplify $4x - 2y - 2x - 3y$

Answer _____ [2]

THIS IS THE END OF THE QUESTION PAPER
