



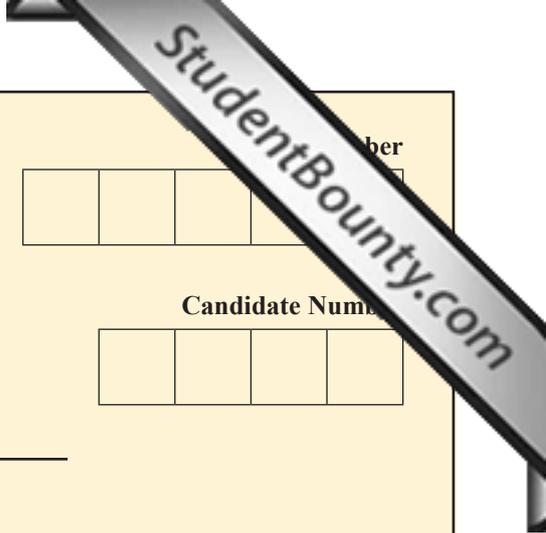
Rewarding Learning

General Certificate of Secondary Education
2011

Centre Number
[] [] [] [] [] []

Candidate Number

[] [] [] [] [] []



Mathematics

Module N5 Paper 2
(With calculator)
Foundation Tier



[GMN52]



GMN52

MONDAY 6 JUNE
2.45 pm – 3.45 pm

For Examiner's use only	
Question Number	Marks
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	

TIME

1 hour.

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 fifteen** 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 56.

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.

The Formula Sheet is on page 2.

Total Marks	[]
-------------	-----

Examiner Number
[] [] [] [] [] []

6394

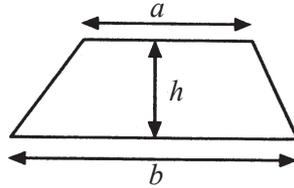
Examiner Number



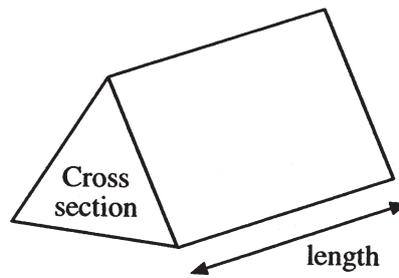
J U N E 1 1 G M N 5 2

Formula Sheet

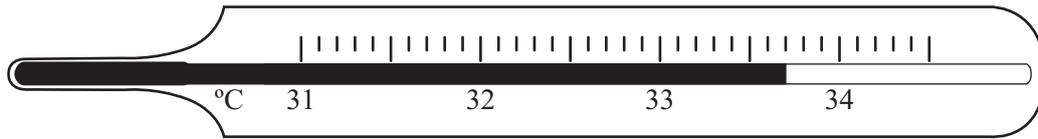
Area of trapezium = $\frac{1}{2}(a+b)h$



Volume of prism = area of cross section \times length

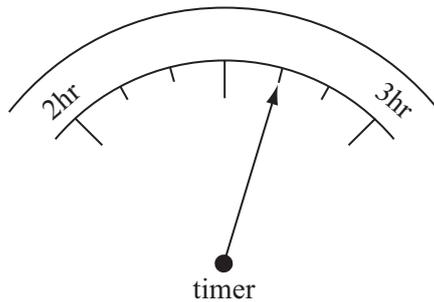


2 (a) Write down the temperature shown on the thermometer.



Answer _____ °C [1]

(b) Write down the reading from the timer.



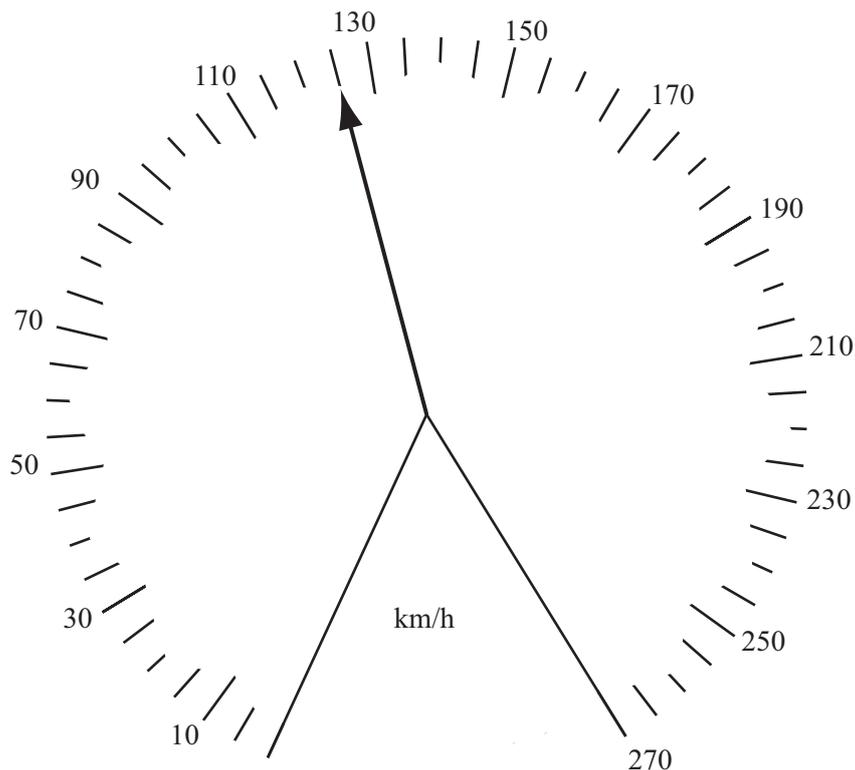
Answer ____ hrs ____ mins [1]

Examiner Only

Marks Remark



(c) The speedometer below shows the speed in km/h.



(i) What speed is shown?

Answer _____ km/h [1]

(ii) On the speedometer draw an arrow to show a speed of 158 km/h. [1]

(iii) What is the difference between the speed in (i) and the speed in (ii)?

Answer _____ km/h [1]

Examiner Only

Marks Remark

Total Question 2

[Turn over



3 The Print Pot advertise printing costs as

$$\text{Cost (pence)} = 35 \times \text{colour prints} + 10 \times \text{black and white prints}$$

(a) Gemma gets 3 colour prints and 2 black and white prints.

Work out the cost in pounds (£).

Answer £ _____ [2]

(b) The Fast Print advertise their printing costs as

$$\text{Cost (pence)} = 30 \times \text{number of prints} + 90$$

How much would Gemma have paid in The Fast Print?

Answer £ _____ [2]

Examiner Only	
Marks	Remark
Total Question 3	
Total Question 4	

4 The following temperatures were recorded in °C over a period of time

12, -2, 7, -9, 13, -14, 6, -10

From the list write down

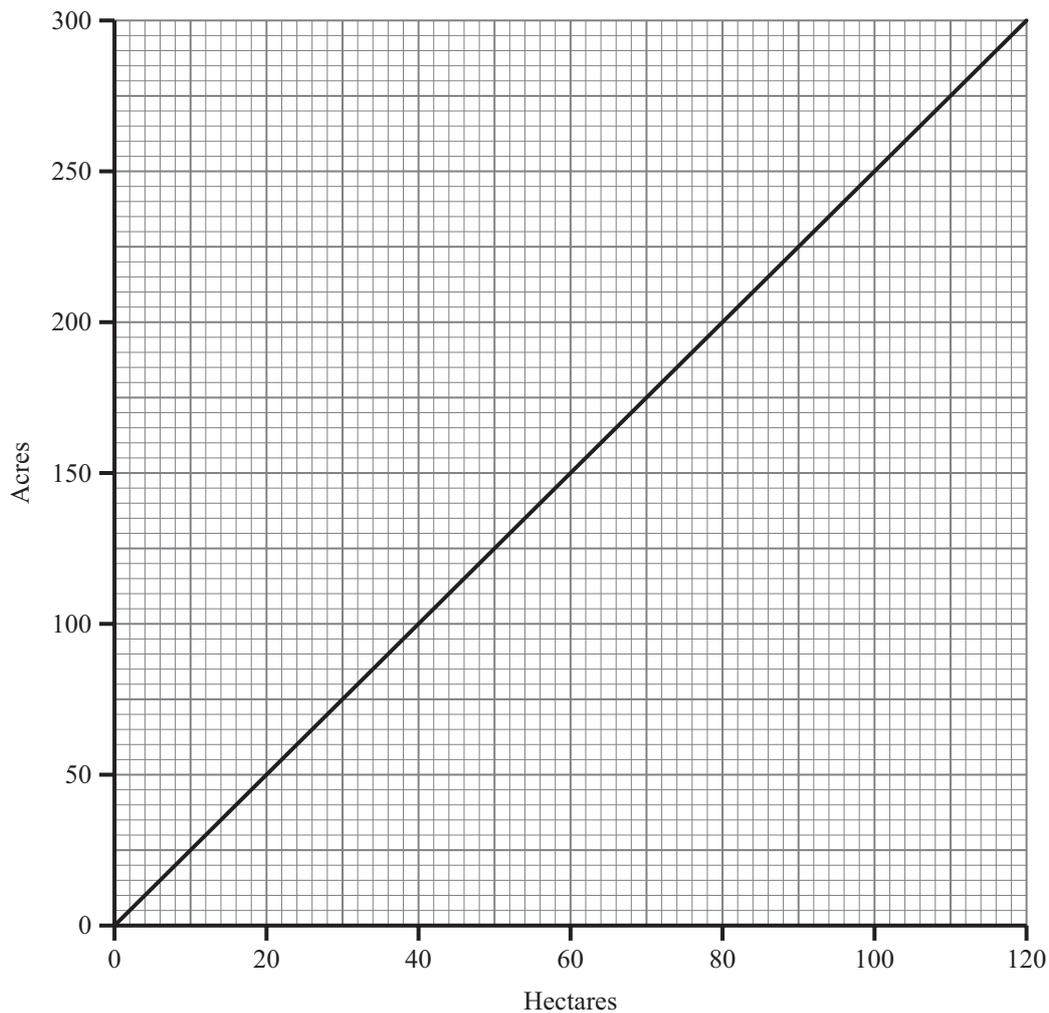
(a) the warmest temperature, Answer _____ °C [1]

(b) the coldest temperature. Answer _____ °C [1]



5 Land area can be measured in hectares or in acres.

The conversion graph shows how to convert between hectares and acres.



(a) How many hectares are in 220 acres?

Answer _____ hectares [1]

(b) Work out the number of acres in 150 hectares.

Answer _____ acres [1]

(c) Complete the sentence

An acre is _____ times greater than a hectare. [1]

Examiner Only

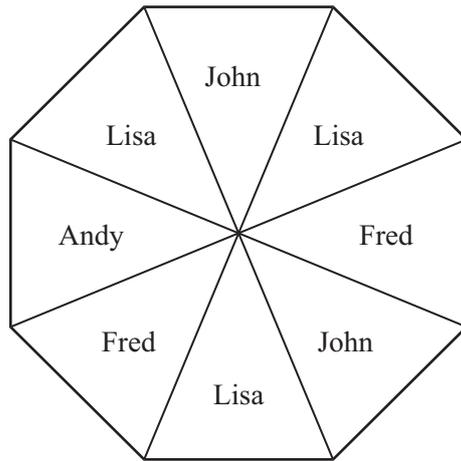
Marks Remark

Total Question 5

[Turn over



- 6 The spinner below is a regular octagon. It can land on any name.



- (a) Which name is the spinner most likely to land on?

Answer _____ [1]

- (b) Which two names is the spinner equally likely to land on?

Answer _____, _____ [1]

- (c) Write down a name which the spinner **cannot** land on.

Answer _____ [1]

- (d) Is the spinner more likely to land on a boy's or girl's name?

Answer _____ [1]

- (e) The spinner is spun 200 times. How many times would you expect it to land on the name Lisa?

Answer _____ [2]

Examiner Only

Marks Remark

Total Question 6



7

A H J N P S W X

- (a) Write down the two letters from above which have exactly **one** line of symmetry.

Answer _____, _____ [1]

- (b) Write down the two letters from above which have rotational symmetry of order 2 **and** two lines of symmetry.

Answer _____, _____ [2]

- (c) Write down the two letters from above which have rotational symmetry of order 2 **and** no lines of symmetry.

Answer _____, _____ [2]

Examiner Only	
Marks	Remark
Total Question 7	
Total Question 8	

- 8 Put brackets in the following statements to make them true

(a) $5 \times 4 + 3 - 2 = 33$ [1]

(b) $9 - 3 \times 2 + 7 = 54$ [1]



9 800 tickets numbered 1 to 800 are sold for a raffle.

- (a) What is the probability that the winning ticket has a number greater than 550?

Answer _____ [2]

- (b) The probability that a male has the winning ticket may not be $\frac{1}{2}$. Explain why.

Answer _____

_____ [1]

Examiner Only

Marks Remark

Total Question 9

6394



1 0

- 11 The exchange rate for £ to euro was $\text{£}1 = \text{€}1.15$
 Jim bought a pair of jeans which cost €90
 How much did the jeans cost in £?

Answer £ _____ [2]

Examiner Only	
Marks	Remark
Total Question 11	

- 12 Tony selects a ball at random from a bag containing 8 blue, 1 green and 4 white balls.

What is the probability that Tony selects a

- (a) green ball?

Answer _____ [1]

- (b) white ball?

Answer _____ [1]

- (c) ball which is **not** white?

Answer _____ [1]

- (d) red ball?

Answer _____ [1]

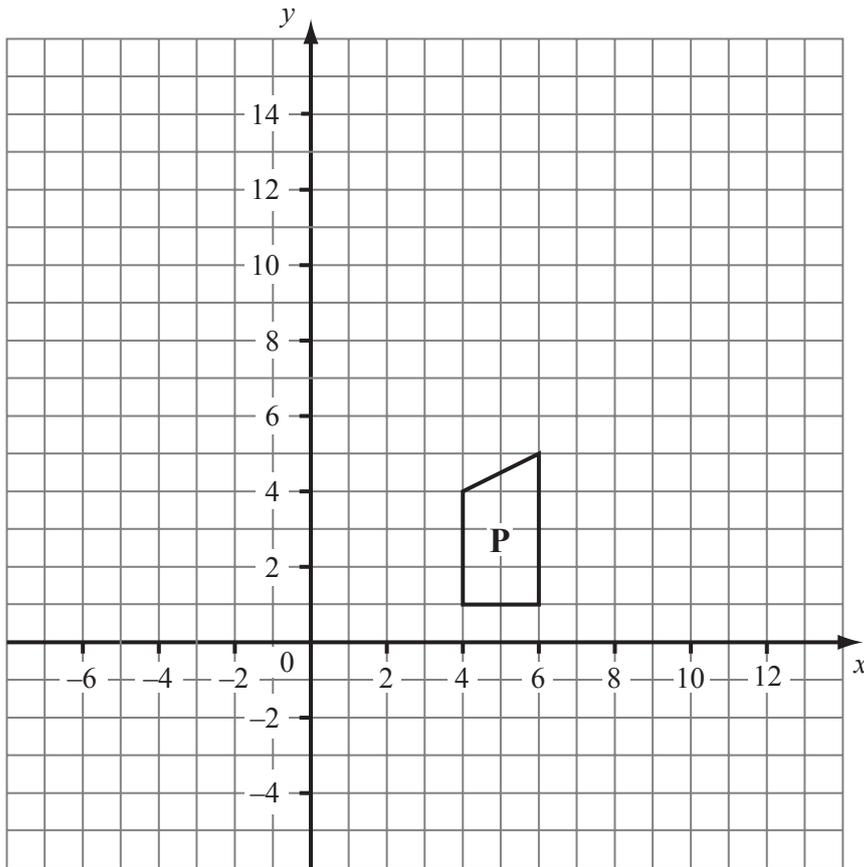
- (e) blue or a green ball?

Answer _____ [2]

Total Question 12	



13



Shape P is shown on the grid.

(a) Reflect P in the y axis.

[1]

(b) Draw the image of shape P after a translation $\begin{pmatrix} -3 \\ 5 \end{pmatrix}$.

[2]

Examiner Only

Marks	Remark
Total Question 13	

Total Question 13

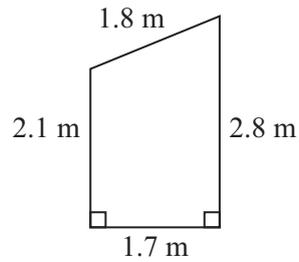
[Turn over]

6394



1 3

14



The diagram represents the side view of a garden shed with a sloping roof. Calculate the area of the side view of the shed. Give your answer to an appropriate degree of accuracy.

Answer _____ m² [3]

Examiner Only

Marks	Remark
Total Question 14	

15 To calculate the amount of income tax on his earnings, Tom used the following information.

Total earnings = £24,265

Tax free personal allowance = £5,895

10% tax on first £3,200 of taxable income

28% tax on taxable income from £3,201 to £42,600

What total amount of income tax should he have calculated?

Answer £ _____ [4]

Total Question 15	

6394



1 4

THIS IS THE END OF THE QUESTION PAPER

6394



1 5

PLEASE DO NOT WRITE ON THIS PAGE

Permission to reproduce all copyright material has been applied for.
In some cases, efforts to contact copyright holders may have been unsuccessful and CCEA
will be happy to rectify any omissions of acknowledgement in future if notified.

111335

