



General Certificate of Secondary Education
2025

Centre Number

--	--	--	--	--

Candidate Number

--	--	--	--	--

Mathematics

Unit M5 Paper 2
(With calculator)
Foundation Tier



[GMC52]

GMC52

WEDNESDAY 4 JUNE, 10.45am – 11.45am

TIME

1 hour.

INSTRUCTIONS TO CANDIDATES

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

You must answer the questions in the spaces provided.

Do not write outside the boxed area on each page, on blank pages or tracing paper.

Complete in black ink only. **Do not write with a gel pen.**

Questions which require drawing or sketching should be completed using an HB pencil. All working **must** be clearly shown in the spaces provided. Marks may be awarded for partially correct solutions.

You **may** use a calculator for this paper.

Answer **all fifteen** questions.

INFORMATION FOR CANDIDATES

The total mark for this paper is 50.

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 and a protractor.

The Formula Sheet is on page 2.

15916



24GMC5201

Formula Sheet

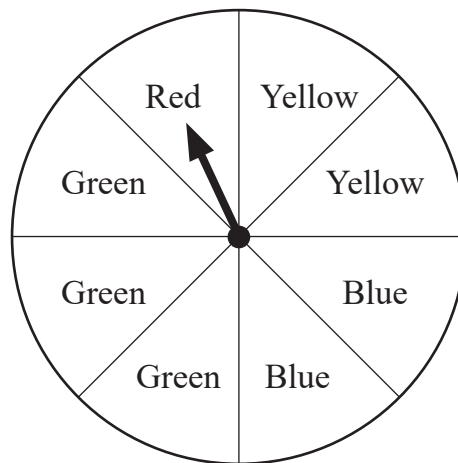
$$\text{Area of trapezium} = \frac{1}{2}(a + b)h$$



$$\text{Volume of prism} = \text{area of cross section} \times \text{length}$$



1 The spinner below is spun.



(a) On which colour is the spinner **most likely** to land?

Answer _____ [1]

(b) On which colour is the spinner **least likely** to land?

Answer _____ [1]

(c) On which **two** colours is the spinner **equally likely** to land?

Answer _____ and _____ [1]

(d) What word describes the possibility of the spinner landing on the colour black?

Answer _____ [1]

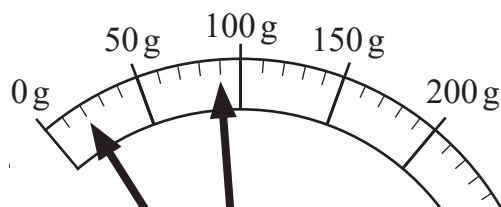
[Turn over



2 A gold miner finds two gold nuggets.

Their weights are shown on the scale below.

What is the difference in their weights?



Answer _____ g [2]





BLANK PAGE
DO NOT WRITE ON THIS PAGE
(Questions continue overleaf)

[Turn over

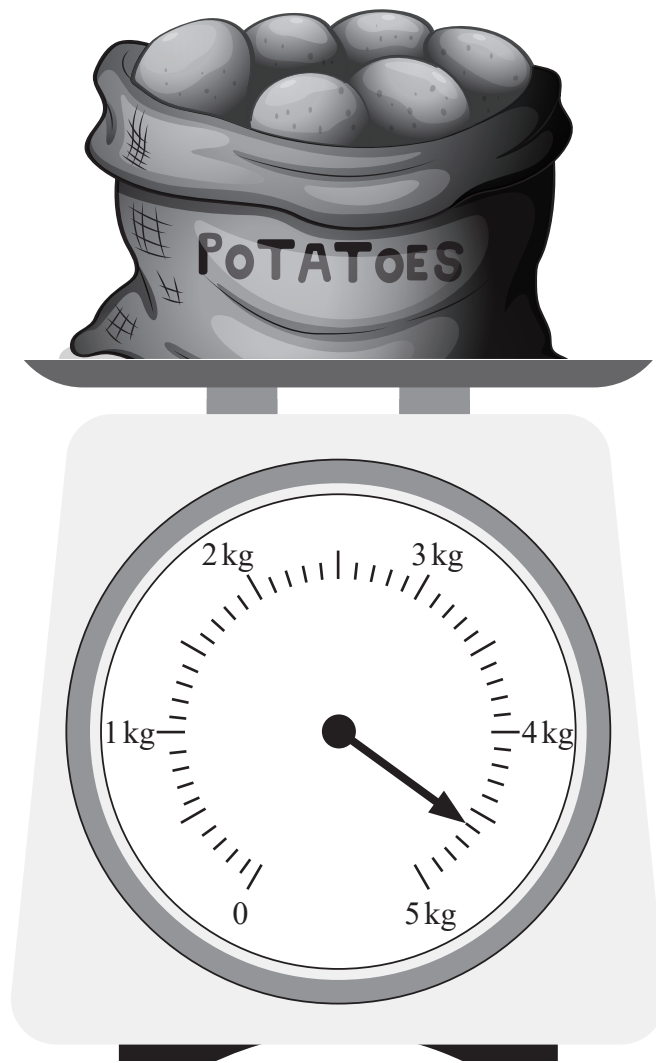
15916



24GMC5205

3 (a) Tracey believes her 5kg bag of potatoes to be underweight.

She puts them on scales to check.



How many kilograms underweight is the bag of potatoes?

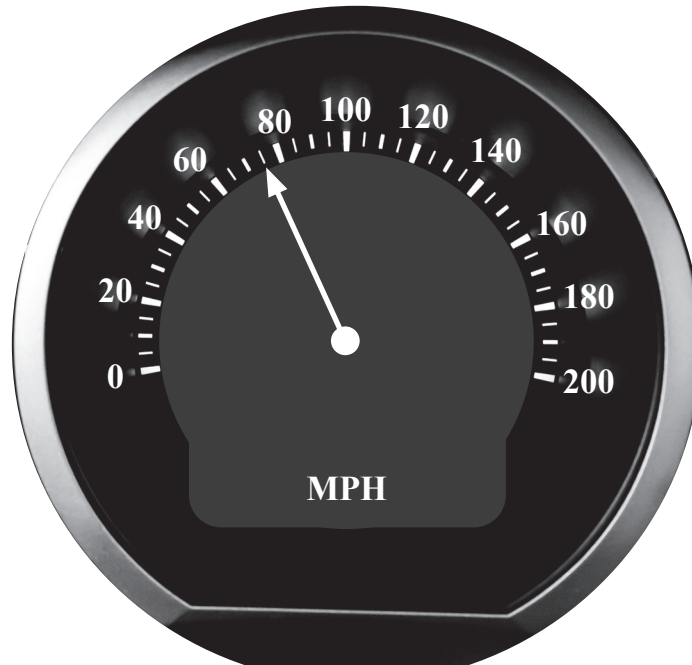
Answer _____ kg [2]



(b) Kevin is driving his car.

The speed limit is 60mph.

His speedometer is shown below.



By how much is Kevin above the speed limit?

Answer _____ mph [2]

[Turn over



4 Ava and Jake get some new items of clothing for Christmas.

Ava	Price	Jake	Price
Jacket	£41.75	Socks	£9.75
Shoes	£48.30	Tracksuit	£39.70
T-shirt	£18.89	Shorts	£18.99

Use **estimation** to show that Ava's items cost approximately £40 more than Jake's.

[3]



5 (a) What is the name of this sequence of numbers?

1, 8, 27, 64, 125 ...

Answer _____ [1]

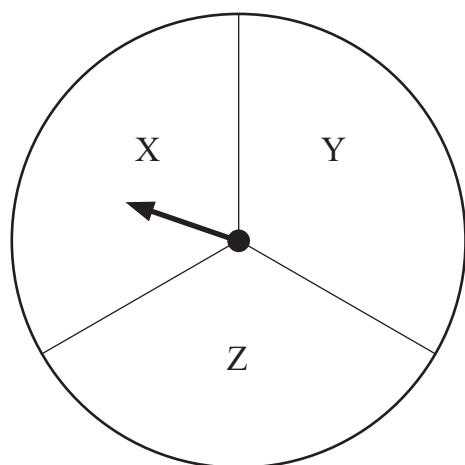
(b) Write down the next term in the sequence.

114, 108, 102, _____ [1]

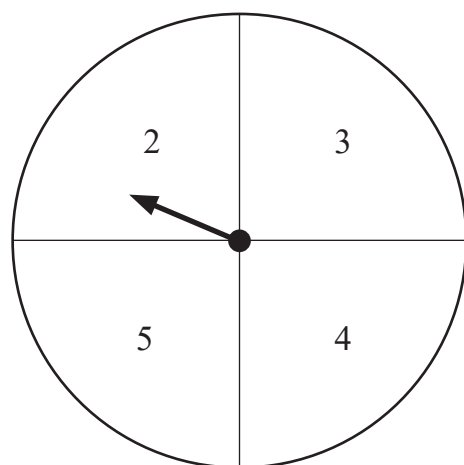
[Turn over



6



Spinner A



Spinner B

Spinners A and B are spun together.

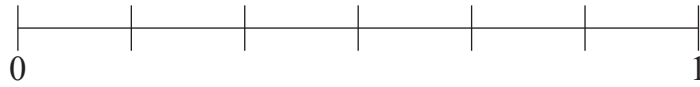
(a) One possible outcome is X2

List all the other possible outcomes.

[2]

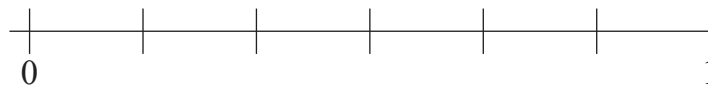


(b) Mark, **with an arrow** on the probability scale, the chance of getting an even number on Spinner B.



[1]

(c) Mark, **with an arrow** on the probability scale, the chance of getting a Y on Spinner A **and** an even number on Spinner B.



[1]

[Turn over



- 7 Dave walks 24 000 steps at the weekend.
He knows that 1500 steps are equal to 1 kilometre.
How many **miles** does Dave walk?



Answer _____ miles [3]



8 A shop sells juice in three different sizes.



0.5 litres cost £0.95



1.5 litres cost £2.88



2 litres cost £3.90

Which size offers best value?

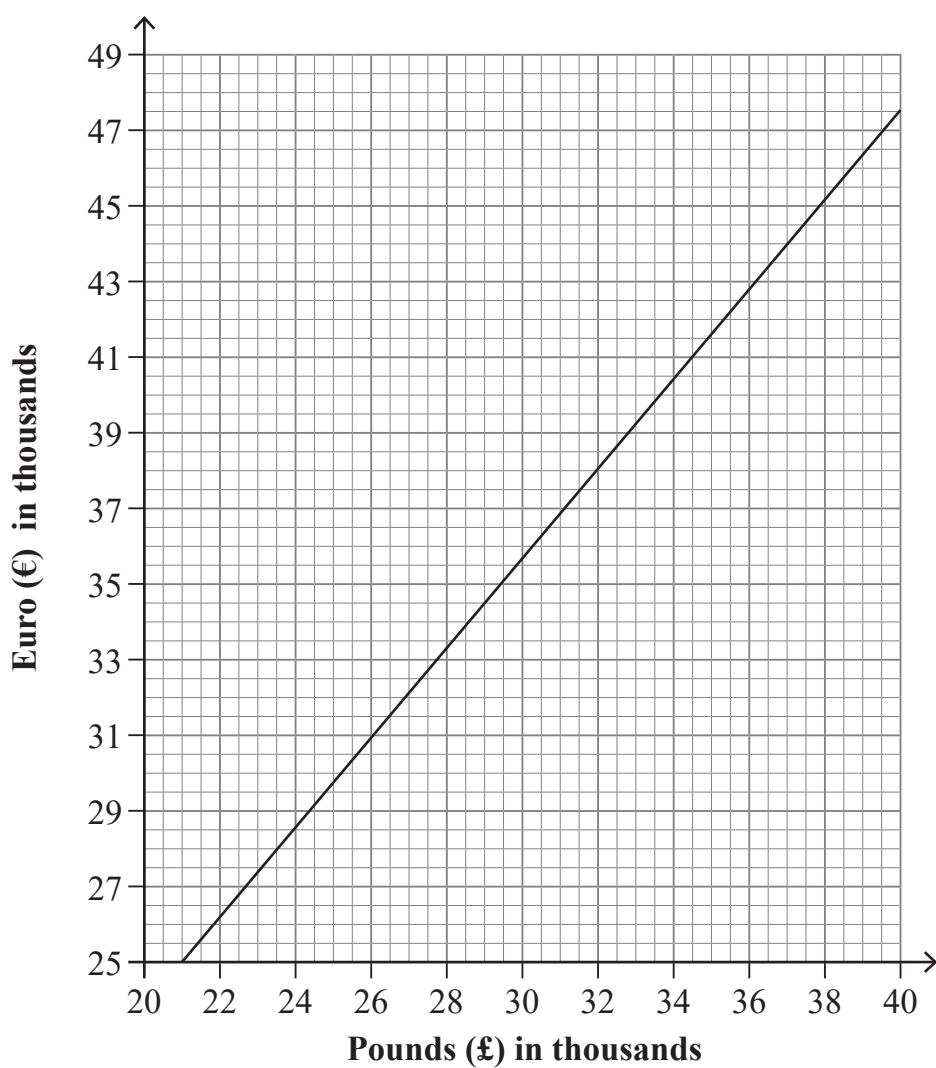
Show your working out clearly.

Answer _____ litres [4]

[Turn over



9 This is a conversion graph between pounds (£) and euros (€).



(a) Melanie works in Dublin and earns €41 000 a year.

Convert €41 000 to pounds (£).

Answer £ _____ [1]



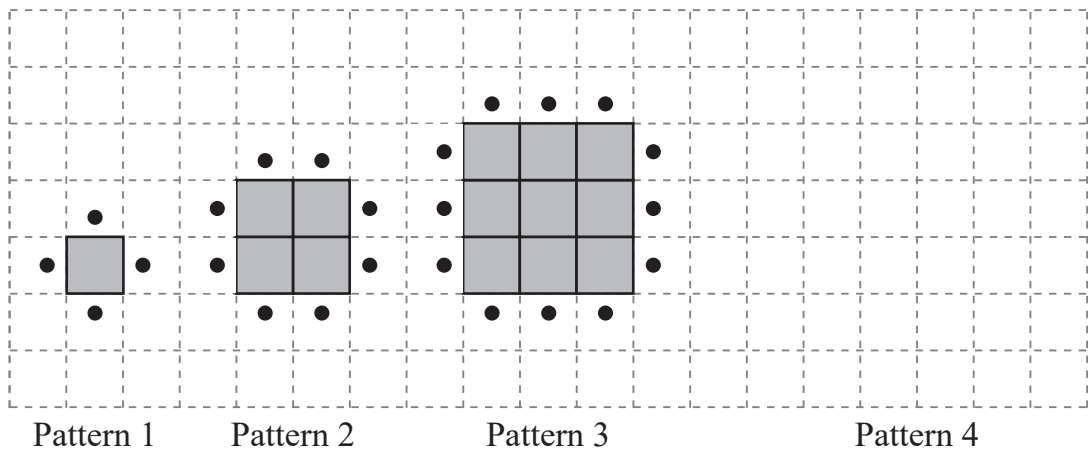
(b) Melanie buys a car costing €16000

How many pounds (£) is this?

Answer £ _____ [2]



10 (a) Draw Pattern 4 in the space provided.



[1]

(b) Complete the table.

Pattern number	1	2	3	4	5
Number of squares	1	4			
Number of dots	4	8			

[2]

(c) A pattern has 81 squares.

What is the pattern number?

Answer _____ [1]



(d) A pattern has 32 dots.

How many **squares** does it have?

Answer _____ [1]



11 Shona plans to roll two fair dice together a number of times.

She makes out a table of possible scores that she can get when she rolls the two dice as shown.

		Dice 2					
		1	2	3	4	5	6
Dice 1	1	0	1	2	3	4	5
	2	1	0	1	2	3	4
	3	2	1	0	1	2	3
	4	3	2	1	0	1	2
	5	4	3	2	1	0	1
	6	5	4	3	2	1	0

(a) What does Shona do with the two numbers on the dice to get her scores?

Answer _____ [1]

(b) What is the most likely score that Shona will get?

Answer _____ [1]

(c) What is the probability of the score being a 2?

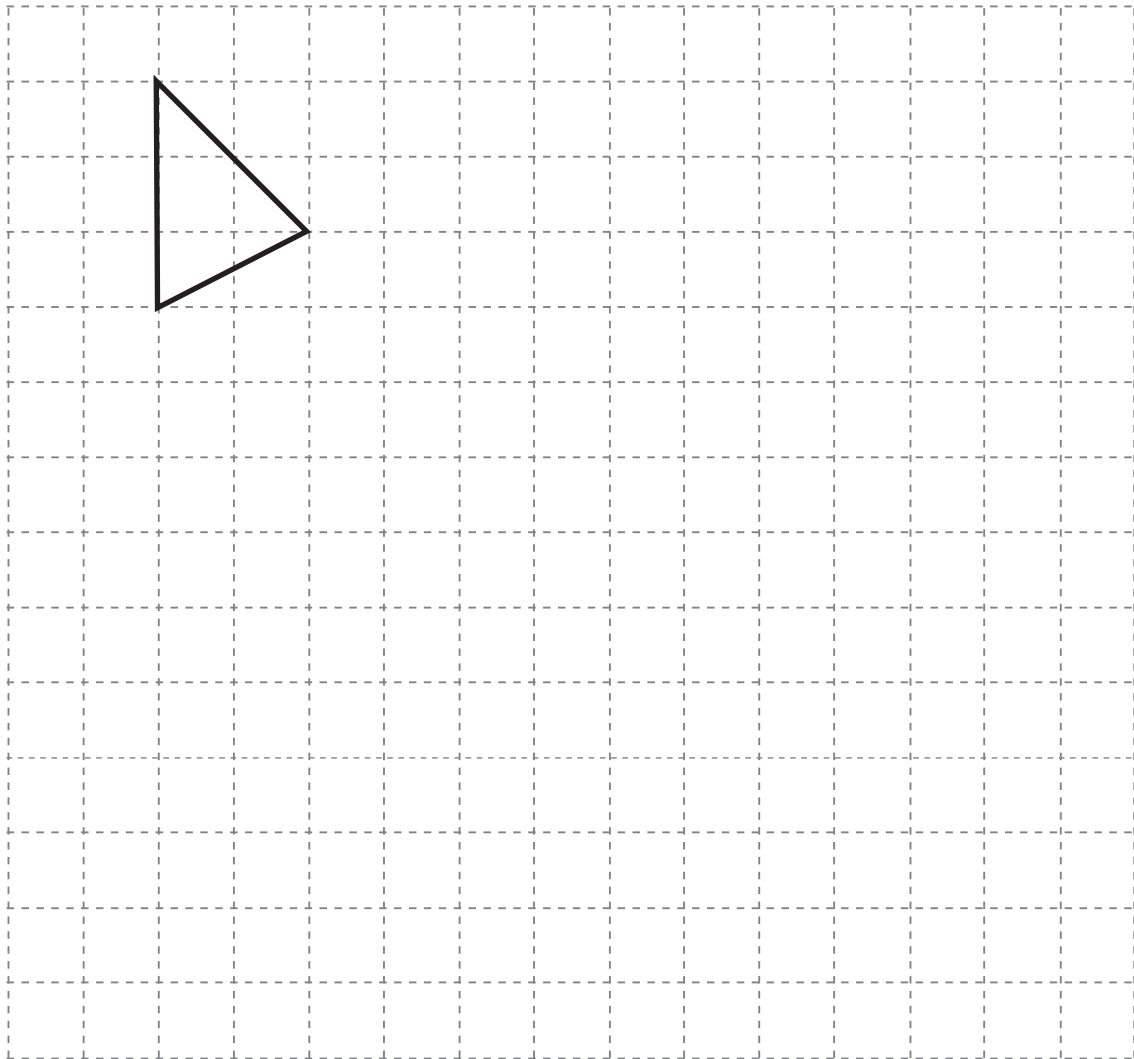
Answer _____ [1]

(d) What is the probability of the score being greater than 3?

Answer _____ [1]



12 Enlarge the triangle using a scale factor of 2



[2]

[Turn over



13 Clive won £800 prize money.

He spent 70% of it.

He shared the rest between two friends in the ratio 1 : 4

How much did each friend get?

Answer £ _____, £ _____ [5]



14 Jill either walks or drives to work.

The probability that Jill walks to work is $\frac{1}{5}$

She is due to work 235 days next year.

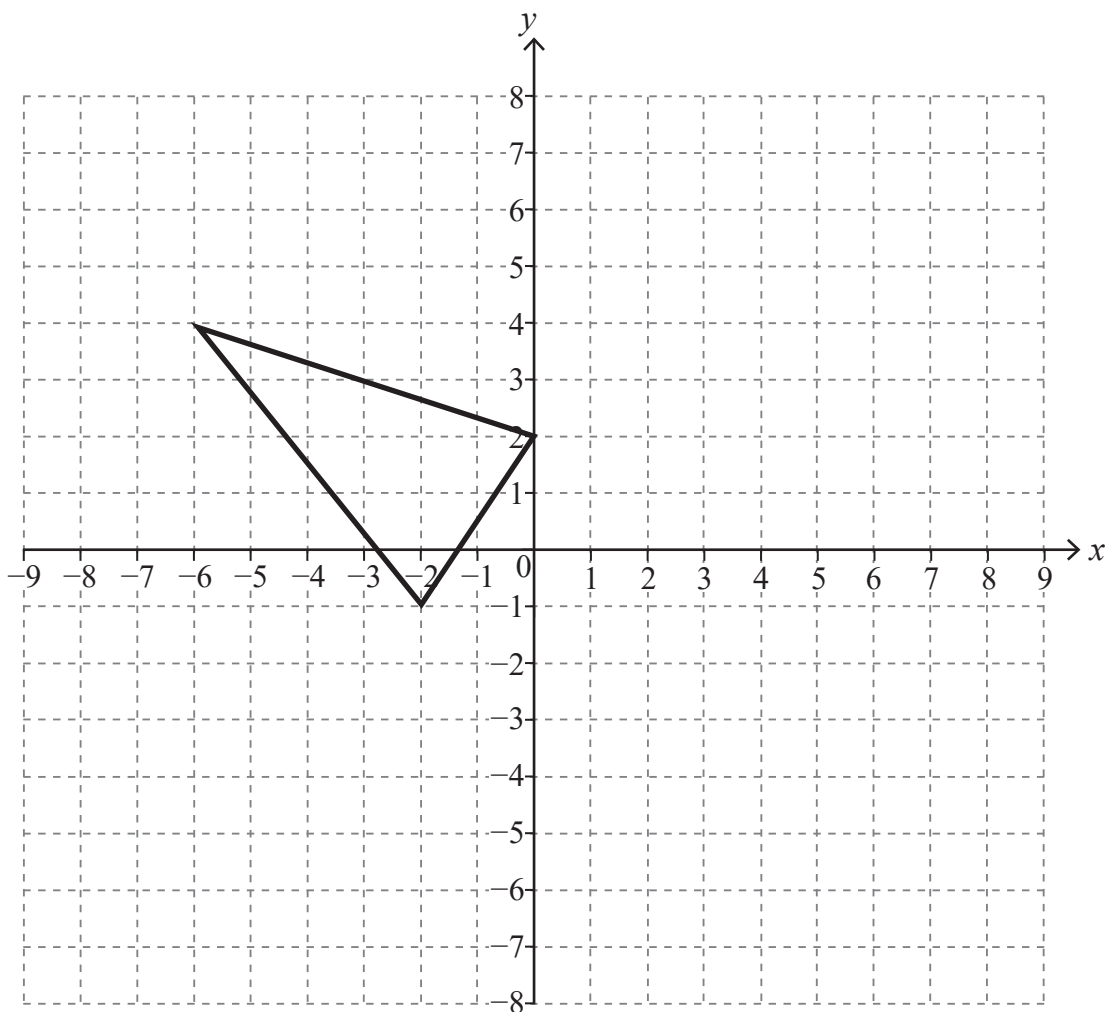
Work out the number of days Jill is expected to drive to work next year.

Show your working out clearly.

Answer _____ days [2]



15 Rotate the triangle shown 90° clockwise about the origin.



[3]

THIS IS THE END OF THE QUESTION PAPER





BLANK PAGE
DO NOT WRITE ON THIS PAGE

15916



24GMC5223

SOURCES:

All images © CCEA unless stated.

Q3a..... © Getty Images

Q7..... © Getty Images

Q8..... © Getty Images

DO NOT WRITE ON THIS PAGE

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

Total Marks	
--------------------	--

Examiner Number

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.

