

		RIDGE AND RSA EXA ate of Secondary Edu				
	MATHEMATICS (Graduated As		1966	/2331B		
	MODULE M1 – S	SECTION B				
	Wednesday	29 JUNE 2005	Morning	30 minutes		
	Candidates answer on Additional materials: Geometrical instru Tracing paper (opt Electronic calculate	ments ional)				
Candidat Name	e					
Centre Number			Candidate Number			

TIME 30 minutes

INSTRUCTIONS TO CANDIDATES

- Write your name, Centre number and candidate number in the boxes above.
- Answer **all** the questions.
- Write your answers on the dotted lines unless the question says otherwise.
- Use blue or black ink. Pencil may be used for graphs and diagrams only.
- Read each question carefully and make sure you know what you have to do before starting your answer.
- There is a space after most questions. Use it to do your working. In many questions marks will be given for a correct method even if the answer is incorrect.
- Do not write in the bar code. Do not write in the grey area between the pages.
- **DO NOT** WRITE IN THE AREA **OUTSIDE** THE BOX BORDERING EACH PAGE. ANY WRITING IN THIS AREA WILL NOT BE MARKED.

INFORMATION FOR CANDIDATES

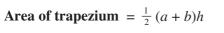
- You are expected to use a calculator in Section B of this paper.
- The number of marks is given in brackets [] at the end of each question or part question.
- The total number of marks for this Section is 25.
- Section B starts with question 8.

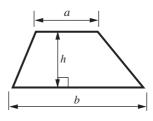
FOR EXAMINER'S USE

Section B

This question paper consists of 9 printed pages and 3 blank pages.

Formula Sheet





	-								
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

8 Amin is using this 100 square to make a number pattern.

He makes his pattern by starting at 1, counting forward 4 squares then down 1 square. This is the pattern.

1 15 29 43 ...

(a) What is the next number in the pattern?

(**a**)[1]

2

(b) Write down a calculation you can do to work out the next number.

.....[1]

- 4
- 9 A school runs a trip to Alton Towers.
 - (a) Tickets cost $\pounds 16.50$ each.

Work out the cost of 140 tickets.

(a) £.....[2]

(b) This is a sketch map showing where the rides are.

X Splash	× ^{Air}		X Corkscrew	
Nemesis X		Log Flume X	Oblivior X	
X Duel	Runaway Train X	× River Rapids	Webmast	X er

(i) Gemma walks South from **Nemesis**.

Which ride does she get to next?

		(b)(i)[1]
(ii)	Karen walks North-west from the Log Flume.	
	Which ride does she get to next?	
		(ii)[1]
(iii)	Nikki walks from Nemesis to the River Rapids .	
	Which compass direction is this?	
		(iii)[1]

(c) Zara wants to go on her favourite rides first. Her favourites are Oblivion, Air and Nemesis.

Write down all the different possible ways she could go on the 3 rides. The list has been started for you.

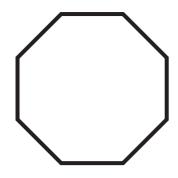
You may not need all the lines		Oblivion	Air	Nemesis
	V			
	the lines			

[2]

7

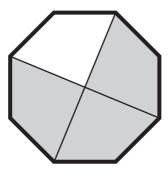
[Turn over

10 (a) What is the name of this shape?



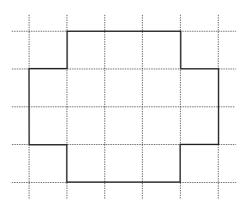
(**a**)[1]

(b) What fraction of this shape has been shaded?



(**b**)[1]

(c) Shade half of this shape.

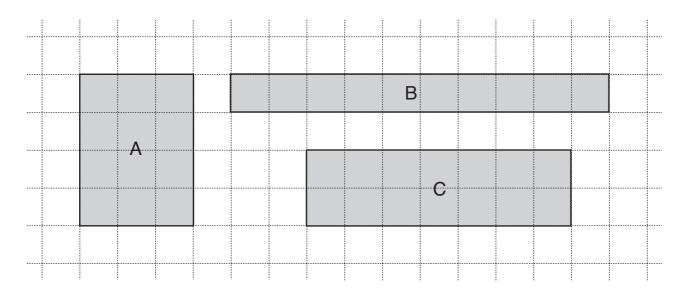


[1]

3

7

11 Which of these shapes has the longest perimeter?



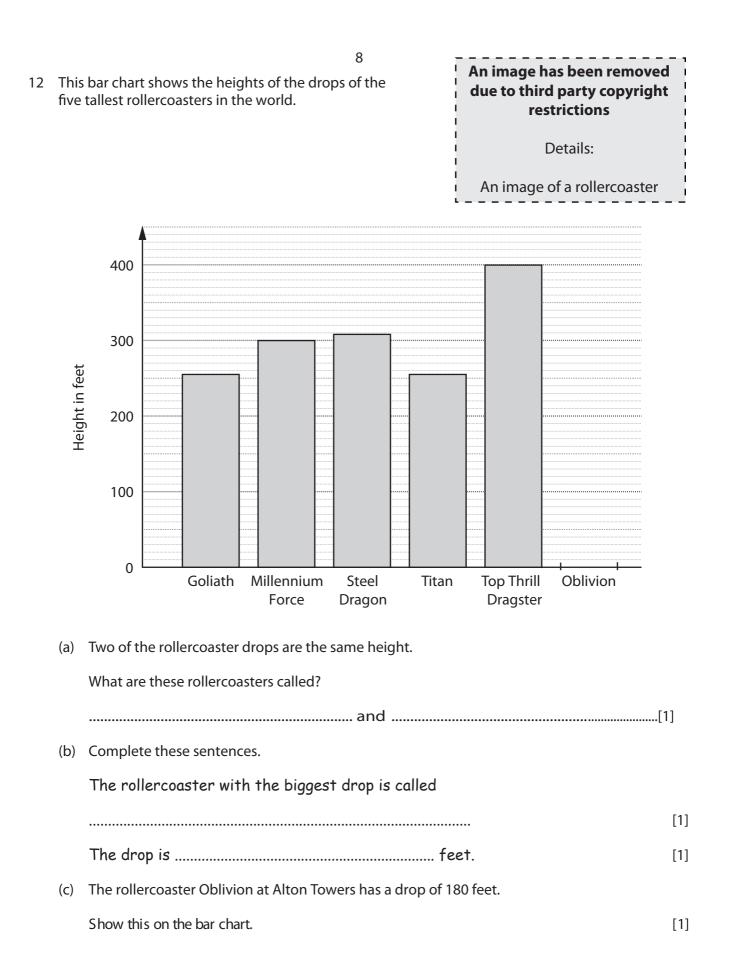
Complete these sentences.

Shape has the longest perimeter.

Its perimeter is cm.

[3]

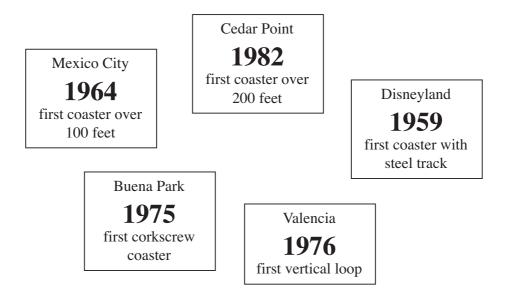
3



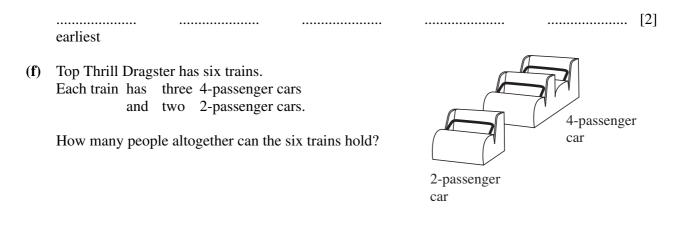
(d) The longest rollercoaster in Britain is The Ultimate at Lightwater Valley. It is 7452 feet long.

Write 7452 in words.

(e) These are some important dates about rollercoasters.



Write the dates in order, earliest first.



10

9

10 BLANK PAGE

11 BLANK PAGE

12 BLANK PAGE

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