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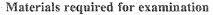
Edexcel GCSE

Mathematics (Linear) – 1380

Paper 3 (Non-Calculator)

Sequences

Past Paper Questions Arranged by Topic



Ruler graduated in centimetres and millimetres, protractor, compasses, pen, HB pencil, eraser. Tracing paper may be used.



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Examiner's use only

Items included with question papers

Instructions to Candidates

In the boxes above, write your centre number, candidate number, your surname, initials and signature. Check that you have the correct question paper.

Answer ALL the questions. Write your answers in the spaces provided in this question paper.

You must NOT write on the formulae page.

Anything you write on the formulae page will gain NO credit.

If you need more space to complete your answer to any question, use additional answer sheets.

Information for Candidates

The marks for individual questions and the parts of questions are shown in round brackets: e.g. (2).

There are 26 questions in this question paper. The total mark for this paper is 100.

There are 24 pages in this question paper. Any blank pages are indicated.

Calculators must not be used.

Advice to Candidates

Show all stages in any calculations.

Work steadily through the paper. Do not spend too long on one question.

If you cannot answer a question, leave it and attempt the next one.

Return at the end to those you have left out.

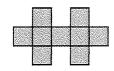


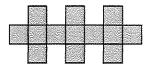




1. Here are some patterns made from squares.





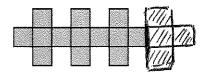


Pattern number 1

Pattern number 2

Pattern number 3

(a) The diagram below shows part of Pattern number 4 Complete the diagram for Pattern number 4



Pattern number 4

(1)

(b) Complete the table.

Pattern number	1	2	3	4	5
Number of squares	5	9	13	7	21
		•	~	- 4	-

(1)

(c) Find the number of squares used for Pattern number 10

Number of squares = Pattern Number X4 +1.

41 squar

 $= 10 \times 4 + 1 = 41$

(1) Q1

2.	Here	are	some	patterns	made	using	sticks.
 •	7 T. W.Y. W	~ ·	~~~~~	L. C.	III CEC	*****	CULTED.



Pattern number 1

Pattern number 2

Pattern number 3

(a) In the space below, complete Pattern number 4.



Pattern number 4

(1)

(b) Complete the table.

Pattern number	1	2	3	4	5
Number of sticks	4	7	10	13	16

(1)

(c) How many sticks are used in Pattern number 10?

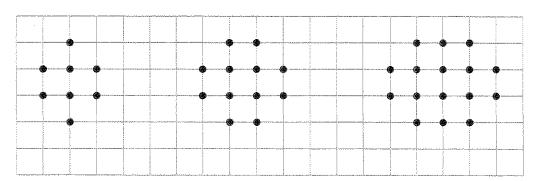
$$4 = 1 \times 3 + 1$$
 $7 = 2 \times 3 + 1$
 $31 = 10 \times 3 + 1$

31

(1)

Q2

3. Here are some patterns made with dots.

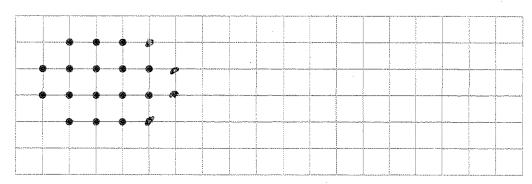


Pattern number 1

Pattern number 2

Pattern number 3

(a) In the space below, complete Pattern number 4



Pattern number 4

(1)

(b) Complete the table.

Pattern number	1	2	3	4	5
Number of dots	8	12	16	20	24

(2)

Q3

Leave
blank

- The first even number is 2
 - (a) Write down the 3rd even number.

2, 4, 6

(1)

Here are some patterns made from sticks.



Pattern number 1



Pattern number 2



Pattern number 3

(b) Complete Pattern number 4



Pattern number 4

(1)

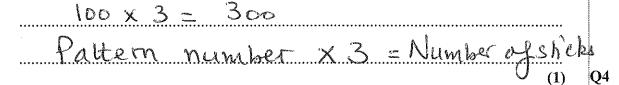
(c) Complete the table.

Pattern number	1	2	3	4	5	1
Number of sticks	3	6	9	12	15	

(2)

Jenny wants to find the number of sticks in Pattern number 100

(d) Write down a method she could use.



6. Here is a sequence	of patterns mad	e from grey s	squares and w	hite squares.	NCCC 4.00000 29 6.000000000 CCCP 011 P 2 A 2 P 2 A 2 P 2 A 2 P 2 A 2 P 2 A 2 P 2 A 2 P 2 A 2 P 2 A 2 P 2 A 2 P	Leave blank	
	-					**************************************	
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Pattern Number 1	··· · · · · · · · · · · · · · · · · ·					ribatri A A Artonik iki di manaka novigi iki	
(a) Complete Patte	rn Number 4					e eminorezzai e e citalitud	
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Pattern Number 4						referènce .	
Numoer 4					(w)	defend dependent	
(b) Complete the ta	able.					Ne see A Ne de la Media de montes	
Pattern Number	Terrord	2	3	4	5	13	
Total number of squares	3	6	9	12	15	J. Stanovicki di	
					(1)	ALTERIO CONTRA ANTONIO POR	
One of the patterns	in the sequence	has 10 grey	squares.			Special and a sp	
(c) How many whi		this pattern l	nave?			Section of the sectio	
lox				G A	(1)	ke .	
					(1)	and the state of t	
Another pattern in t	he sequence has	s a total of 18	3 squares.			er si koltajni ekte në teroko	
(d) How many gre			ive?		gamenia.	s province and and a frame (cl. 46)	
18 =	3 = 6				6 gree	foresteribilities — deline	
				***************************************	(1)	Q 5	
				(To	otal 4 marks)		

,		Leave blank
6.	Here are the first four terms of a number sequence.	or bassaradılıkadıdı ki er
	5 9 13 17 (add 4)	annihit Attendida annihit
	(a) (i) Write down the next term of the number sequence.	индинанар Риманиямия
		forders of the format
	21	month and Alberta
	(ii) Explain how you found your answer.	man de
	Add four to previous term.	AAAN (AAAA)
		A LIVYYT II' HIVTHINM
	The 25th term of the number sequence is 101	MANAGAMA KANGANA
	(b) Work out the 26th term of the number sequence.	e e e e e e e e e e e e e e e e e e e
	101 + 4 = 105	de de la constanta de la const
	10.5	raki da da karaka da
	(1)	<u>Q6</u>
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