Edexcel GCSE Mathematics (Linear) – 1MA0

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

Items included with question papers Nil



Instructions

Use black ink or ball-point pen.

Fill in the boxes at the top of this page with your name, centre number and candidate number. Answer all questions.

Answer the questions in the spaces provided – there may be more space than you need. Calculators may be used.

Information

The marks for each question are shown in brackets – use this as a guide as to how much time to spend on each question.

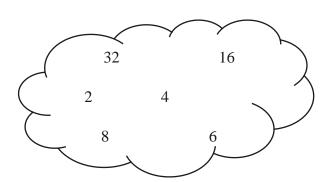
Questions labelled with an asterisk (*) are ones where the quality of your written communication will be assessed – you should take particular care on these questions with your spelling, punctuation and grammar, as well as the clarity of expression.

Advice

Read each question carefully before you start to answer it. Keep an eye on the time. Try to answer every question. Check your answers if you have time at the end.

12 8 27 4 6 16 5 Using only the numbers in the cloud, write down all the multiples of 6, (i) all the square numbers, (ii) all the factors of 12, (iii) (iv) all the cube numbers. (4 marks) 2. Here is a list of numbers. 2 5 7 8 9 12 Write down a number from the list which is a multiple of 6, (i) a factor of 15, (ii) (iii) a square number. (3 marks) 3. Here is a list of numbers. 3 8 11 25 33 41 Write down a number from the list which is an even number, (a) (1) a square number, (b) (1) a multiple of 11 (c) (1) (3 marks)

1.



From the numbers in the cloud, write down

(a) a square number,

(b) the square root of 16,			(1)
			(1)
(c) the cube of 2,			
			(1)
(d) the prime number.			
			(1) arks)
		(+ 111	<u> 11 NS /</u>
2 3 4 5	6 7 8		
From the list of numbers, write	down		
(i) the square number,			
(ii) the cube number,			
(iii) the square root of 9.			
			arks)

5.

6. Here is a list of numbers.

		17	24	25	26	35	43	44	
	From	n the nu	mbers in	the list, v	vrite dow	'n			
	(i)	the odd	d number	that is la	rger than	n 40,			
	(ii)	the nu	mber that	is a mult	tiple of 7	,			
	(iii)	two nu	mbers th	at have a	differen	ce of 20,			
	(iv)	the nu	mber that	has the s	same valu	ue as 2 +	3×5		
									(4 marks)
7.	Here	is a list	of numb	ers.					
		8	8 15	23	27 32	33			
	Fron	n the nu	mbers in	the list, v	vrite dow	n a num	ber that	t is prime.	
									(1 marks)
8.									

18		_	42	
		9		
				3
6	12		81	
		11		30

From the numbers in the rectangle,

9.	Here is	a list	of eight	numbers.
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5 6 12 20 25 26 28 33 (a) From the list, write down (i) a square number, a number that is a multiple of 7, (ii) (iii) **two** numbers that are factors of 40, and (iv) **two** numbers with a sum of 59. and (4) (b) Tony says that "6 is a cube number because $2^3 = 6$ ". Tony is wrong. Explain why. (1) (5 marks)

10.

8					
	9				10
		12			
30			3		
	5			20	

Using only the numbers in the rectangle, write down



11.											
		factor	mult	iple	squa	re	square	root	half		
	(a)	Use a w	ord from	n the lis	t above	to con	nplete th	e follov	wing sente	ence.	
		10	is a				of 5				
											(1)
	(b)	From the	e list be	low, wr	ite dow	n the o	odd numl	ber.			
		10	15	18	20	24					
	(a)	Enom the	- list ha	1	ita darr	m tha		mhan			(1)
	(c)	From the						inder.			
		10	12	14	16	18	20				
											(1)
											(3 marks)
12.	Here	e is a list o				-	ć	-	0		
			2	4		5	6	7	8		
	From	n the list o	of numb	ers writ	e down	l					
	(i)	an odd n	umber								
	(ii)	a square	numbe	r							
	(iii)	a multip	le of 3								•••••
	(iv)	a factor	of 10								
											<u>(4 marks)</u>
13.	Here i	s a list of	8 numb	ers.							
			4	7	10	16	18	20	21	32	
From	n the 1	numbers in	n the lis	t write o	down a	numbe	er that is				
(i)	an ode	d number									
(ii)	a mult	tiple of 5									
		re numbe	r								
	_	or of 42									
(1)	a raci	л 01 4 2								•••••	(4 marks)

14. Here is a list of 8 numbers.

	3	5	6	8	9	10	11	16	
From	n the list, w	rite down	1						
(a)	two odd n	umbers,							
								and	(1)
(b)	two numb	ers with	a sum of	15					
								and	(1)
(c)	a factor of	12							
							••••		(1)
(d)	a multiple	of 4							
									(1)
Jam	es says that	10 is a sc	quare nun	nber beca	ause 5 ² =	= 10			
(e)	James is w Explain w								

•••••••••••••••••	••••••	 ••••••
		(5 m

15. (a) Here is a list of numbers.

	3	5	7	8	9	10	12				
From the list of numbers, write down											
(i) a	(i) a multiple of 6										
(ii) a	factor of 14										
(iii) a	square root of	f 25									

(b) Scott says

'If you add two different square numbers, you will always get an even number.' Show that Scott is **wrong**.

								(2)
								(5 marks)
16. Here is	a list of	f numbe	rs.					
2	5	8	10	13	14	16	18	
(a) From the	ne list, v	write dov	wn					
(i) ar	odd nu	umber,						
(ii) th	e multij	ple of 6,						
(iii) th	e square	e numbe	er.					(3)
Erin says th	at 8 is a	ı prime ı	number.					
(b) Erin is Explain								
•••••								
								(4 marks)