Edexcel GCSE Mathematics (Linear) – 1MA0

FACTORS, MULTIPLES PRIMES

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.

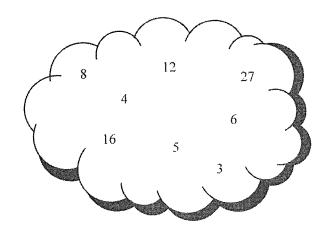
Advice

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.



Using only the numbers in the cloud, write down

(i)	all	the	multiples	of 6,

5

(4 marks)

_	~ ~			14 .			
2.	Here	18	a	list	OT.	num	bers

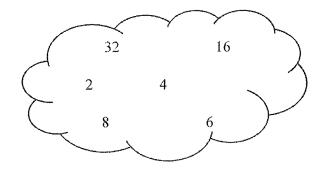
7

Write down a number from the list which is

Write down a number from the list which is

(3 marks)

4.



From the numbers in the cloud, write down

(a) a square number,

(b) the square root of 16,

(c) the cube of 2,

(d) the prime number.

											,	_	_	2	•										
٠	٠	٠	٠	٠	٠	٠	٠	٠	٠	•	٠	٠	•	٠	•	•	٠	٠	٠	٠	٠		٠	٠	

(1) <u>(4 marks)</u>

5.

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.

3

(3 marks)

6.	Here	is a list	t of num	bers.							
		17	24	25	26	35	43	44			
	Fron	n the nu	mbers ir	the list,	write do	wn					
	(i)	the od	d numbe	er that is	larger tha	an 40,			43		
	(ii)	the nu	mber tha	at is a mu	ıltiple of	7,			35	•••••	
	(iii)	two n	umbers t	hat have	a differe	nce of 20),		24	44	
	(iv)	the nu	mber tha	at has the	same va	llue as 2	+ 3 × 5		17		<u>(4 marks)</u>
7.	Here		t of num 8 15		27 32	2 33					
	Fron	n the nu	ımbers ir	the list,	write do	wn a nur	nber that	is prime.	23		(1 marks)
8.											
				18		9	- de	42			
			(5	12			81	3		
						1	1		30		
	Fron	n the nu	ımbers ir	the rect	angle,						
	(i)	write	down a r	nultiple (of 4,				12		
	(ii)	write	down a f	factor of	21,				.3		
	(iii)	write	down a p	orime nui	mber.				3 or		(3 marks)

9.	Here	is a l	ist of	eight	numbe	rs.					
			5	6	12	20	25	26	28	33	
	(a)	Fron	n the	list, w	rite do	wn					
		(i)	a sq	uare r	number	·,					25
		(ii)	a nu	ımber	that is	a multi	ple of 7	,			28
		(iii)	two	numl	oers tha	at are fa	ctors of	f 40,			5 and
		(iv)	two	numl	oers wi	th a sun	n of 59.				26 and 33 (4)
	(b)		y is w	rong.	Explai	cube nunn why.					
10.		<u> </u>	· · · · · · · · · · · · · · · · · · ·		***************************************					and the second s	
10.		8		9			· · · · · · · · · · · · · · · · · · ·	10			
			30	5		12 3	2	0			
	Usin	g only	y the i	numb	ers in t	he recta	ngle, w	rite dov	vn		
	(i)	an e	ven n	umbe	r						8 or 1000 12 or 20 or 3
	(ii)	a mu	ıltiple	of 4							8 or 12 or 20
	(iii)	a fac	ctor of	f 15							3 or 5
										DODESTIN OF WHITE PRODUCTION	(3 marks)

	factor	multi	ple	squai	re	square i	oot	half		
(a)						mplete the	e follov	wing sen	tence.	
	10	is a	Mul	ltiple	-	of 5				,
4.5	Y'''.	41 . 1 . 1		•, •	.1	11 1				(
(b)						odd numb	er.			
	10	15	18	20	24				15	
										(
(c)	From the	e list bel	ow, w	rite dow	n the	square nu	mber.			
	10	12	14	16	18	20				
									16	
										(3 mark
Here	e is a list o	f numbe	rs.							
		2	4		5	6	7	8		
Fror	n the list c	of numbe	ers wri	te down						
(i)	an odd n	umber							5 or 7	•••••
(ii)	a square	number							4	*****
(iii)	a multip	le of 3							6	*****
(iv)	a factor	of 10							205	•
	<u></u>						AND MANAGEMENT OF THE PARTY OF			(4 marl
Here	is a list of	8 numbe	ers.							
		4	7	10	16	18	20	21	32	
m the	numbers in	n the list	write	down a	numb	er that is				
an od	d number								7 or 21	
a mul	tiple of 5								10 or 20	•
	are numbe	r							40016	
	or of 42								7 or 21	
, a race	OF OF 12									(4 mark

Hei	re is	a list of 8	numbers	S.							
		3	5	6	8	9	10	11	16		
Fro	m th	e list, wr	ite down								
(a)	tv	vo odd nu	imbers,					<u>3</u>	and	5	(
(b)	tv	vo numbe	ers with a	sum of	15			5	and	10 9	(
(c)	a	factor of	12						oor	•	(
(d)	a	multiple	of 4					.8	<u> </u>	16	(
Jan	nes s	ays that 1	0 is a sq	uare nun	nber bec	ause 5 ² =	= 10				
(e)	Ja E:	imes is w xplain wh	rong. ny. 2	= S,	<u>5</u>		5 ²	‡ 5 ‡ 10	`+5) 	••••
	•••	*************	• • • • • • • • • • • • • • • • • • • •		⊋	***************************************	•••••	7- '\	··········	************	

(1)

<u>(5 marks)</u>

3	5	7	8	9	10	12
om the list o	f numbers, writ	e down				
) a multiple	of 6				12	
i) a factor of	14					
i) a square r	oot of 25				5	
						(
) Scott says						
'If you ad	d two different	square numbe	ers, you will	always get a	n even number	. *
Show that	Scott is wrong	.				
	72-	/ / 1.				
		7				
	$2^{2} = 6$ $3^{2} = 4$	9				,
	<u>+</u>	3 00	(ا			(
	•			Distance of the second		(5 mark
6. Here is a l	ist of numbers.					
2	5 8	10 13	14 16	18		
) From the	ist, write down					
<i>(</i> 1)	1 d					5013
(i) an o	ld number,					••••••
(ii) the r	nultiple of 6,					18
(11)	imitipite or o,					10
(iii) the s	quare number.					16
						(
rin savs that	8 is a prime nur	nher.				
•	-					
) Erin is wr	las :					
Explain w	. Q	- /1-	• 7		Factor	DV
************	0 7 2	<i>= +</i>		_ 15 ^	CACIO	6(0
	11	1	1 1_	$\boldsymbol{\gamma}$	('1	1 1
	Vrime M	runbers	only M	ave 2	tactor	1 and
	Prime A Honsel	lunbers	only M	ave 2	tactor	land (

(1)

(4 marks)