



Education Consultancy

Edexcel GCSE Mathematics FACTORS, MULTIPLES & PRIMES

Materials Required:

- Pen - HB Pencil - Ruler (in centimetres and millimetres) - Protractor - Compass

Information:

 The marks allocated for each question are displayed within brackets – utilise this information to gauge the appropriate amount of time to dedicate to each question
 Questions marked with an asterisk (*) will assess your written communication; be careful of spelling, punctuation and grammar with these questions

Instructions:

Use a black ink pen to answer all questions
Fill your name in the section below
Answer the questions in the spaces provided
Show your working out for all answers

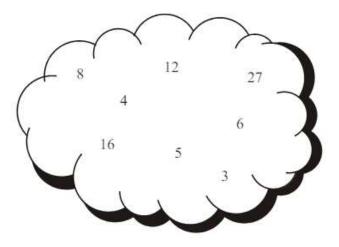
Advice:

 Carefully read the question before attempting to answer it
 Be vary of time and try to answer every question

 If you have enough time in the end, go back and check your answers. A good way to check your answers is to retry the question with the hope of getting the same answer as before without looking at your working out from before

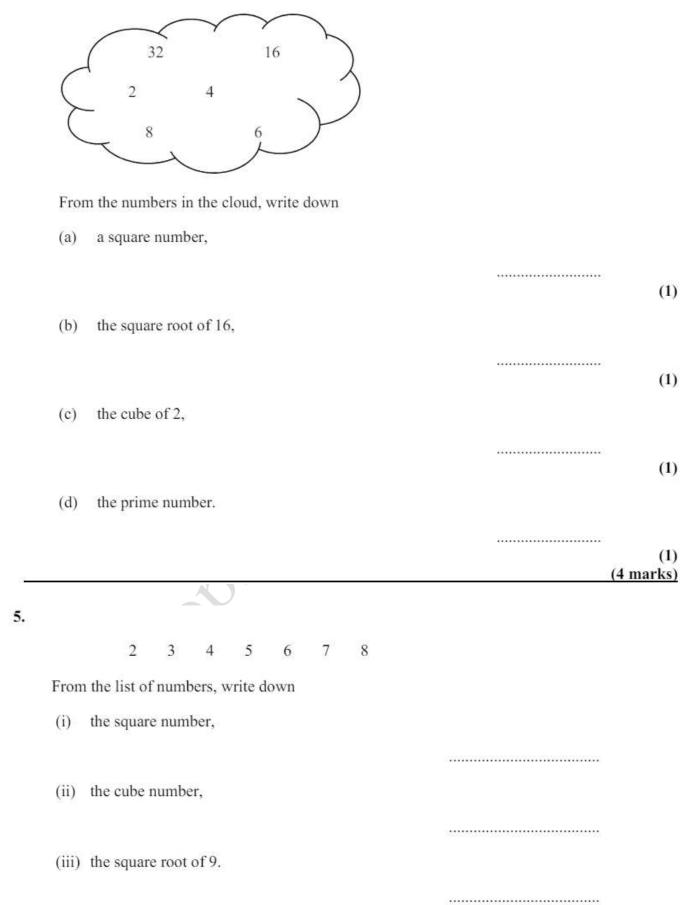
NO CALCULATOR ALLOWED

NAME:



Using only the numbers in the cloud, write down

(i	all the multiples of 6,									
(i	i) all the square numbers									
(i	ii) all the factors of 12,		*****							
(i	v) all the cube numbers.						marks)			
2.	Here is a list of numbers.									
	2 5 7	8	9	12						
	Write down a number from	n the list v	which is							
	(i) a multiple of 6,									
	(ii) a factor of 15,									
	(iii) a square number.									
3.	Here is a list of numbers.									
	3	8	11	25	33	41				
	Write down a number from	n the list v	which is							
	(a) an even number,						(1)			
	(b) a square number,						(1)			
	(c) a multiple of 11						(1)			
						(3 n	narks)			



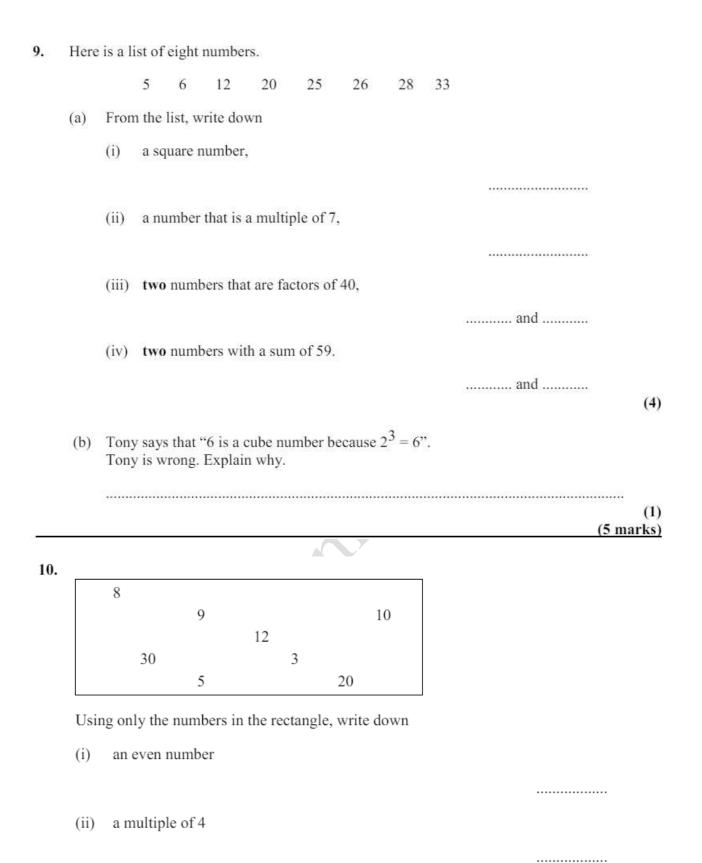
(3 marks)

6.	Here	e is a lis	st of num	bers.										
		17	24	25	26	35	43	44						
	From the numbers in the list, write down													
	(i)	the o	dd numbe	er that is	larger tha	an 40,								
	(ii)	the m	umber tha	at is a mu	ltiple of	7,								
	(iii)	two n	umbers t	hat have	a differe	nce of 20),							
									······ ··· , ······	ų.				
	(iv)	the m	umber tha	at has the	same va	lue as 2	$+3 \times 5$							
										 (4 marks)				
7.	Uard	via o lie	st of num	bara						14 mar K3				
1.	Here		st of num	ders.										

8 15 23 27 32 33

From the numbers in the list, write down a number that is prime.

(1 marks) 8. 18 42 9 3 12 6 81 11 30 From the numbers in the rectangle, write down a multiple of 4, (i) write down a factor of 21, (ii) (iii) write down a prime number. (3 marks)



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(3 marks)

(iii) a factor of 15

11.	÷										
	ŝ	factor	multi	iple	squar	re	square	root	half		
	(a)	Use a wo	rd fron	n the lis	st above	to con	nplete th	e follow	ing sent	ence.	
		10	is a				of 5				
											(1)
	(b)	From the	list be	low, wi	ite dow	n the o	dd numl	ber.			
		10	15	18	20	24					
									*		(1)
	(c)	From the	list be	low w	ite dow	n the c	auara nu	umbor			(1)
	(0)	10 10	12	14		18	20	unoer.			
		10	12	14	10	10	20				
											(1)
)									7		(3 marks)
12			c1					7 1			
12.	Hei	e is a list c	2 numt		4	5	6	7	8		
	2255										
		m the list o			ite dowi	n					
	(i)	an odd 1	number								
	(ii)	a square	numbo	er							
	(iii)) a multip	ole of 3								
	(iv)	a factor	of 10								 (4 marks)
13.	Here	is a list of	8 num	bers.							
			4	7	10	16	18	20	21	32	
From	m the	numbers i	n the li	st write	down a	numb	er that is				
(i)	an oo	ld number									
(ii)	a mu	ltiple of 5									
(iii)	a squ	are numbe	r							******	
(iv)	a fac	tor of 42									(4 marks)

14.	Here	is a	list	of 8	numbers.

	3	5	6	8	9	10	11	16	
From	m the list, wr	ite down	l.						
(a)	two odd n	umbers,							
								and	
(b)	two numbe	ers with a	a sum of	15					
								and	
(c)	a factor of	12							
(d)	a multiple	of 4							
					5				
Jame	es says that 1	0 is a sq	uare nur	nber bec	ause 5 ² =	= 10			
(e)	James is w Explain wł								
		7							(5 n

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

	3	5	7	8	9	10	12	
ron	n the list of m	umbers, write	e down					
) 8	a multiple of	6						
i) a	a factor of 14							
ii) a	a square root	of 25						0
o) 5	Scott says							(3
2		vo different s	quare numbe	ers, you will	always get	t an even nur	iber.'	
		ott is wrong .						
								(2
							(5 n	narks
(8	2 a) From the li (i) an od (ii) the m (iii) the so	ist of numbers 5 8 ist, write dow ld number, nultiple of 6, quare number. 3 is a prime nu	10 13 n	14 16	18			
	b) Erin is wro Explain wl	ong.						
								(1)
2.6							(4 m:	arks)

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