Name:

GCSE (1 - 9)

Factors, Multiples and Primes

Instructions

- Use black ink or ball-point pen.
- Answer all questions.
- · Answer the questions in the spaces provided
- there may be more space than you need.
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- You must show all your working out.

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.

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

1	Write down a multiple of 7 that is	between 20	0 and 30					
					(Total fo	21 or question		-
2	Write down the first even multiple	of 9						
							18	
3	Write down a multiple of 9 that is 1	petween 30	0 and 50		(Total fo	or question ?	2 is 1 m	ark)
					(Total fo	36 or question 3	or sis 1 mg	45
4	Write down a prime number betwe	en 25 and	35		··	question		11 K)
M-04-14-14-14-14-14-14-14-14-14-14-14-14-14						27 or question	**********	*************
5	Write down two factors of 18 1 , 18 2 , 9 3 , 6	(An	42)					
Versionisticange		MANNANA SIN AMBINANSIAMUUNA	1494an 1174a - 174a - 174a - 184a	***************************************	(Total fo	$\frac{3}{2}$ appropriate $\frac{3}{2}$	nd 5 is 2 ma	arks)

5	Write down all the prime numbers between 20 and 30
	02 . 19
	23 and 29
	(Total for question 6 is 2 marks
	Write down two multiples of 10
	10, 20, 30, 40, 50
	(0, 20, 30, 10, 0
	10 20
	(Total for question 7 is 2 marks
	(Total for question / 10 2 marks
	Here is a list of numbers.
	15 19 25 31 35 39 4 0
	From the numbers on the list,
	(a) write down an even number
	40
	(1)
	(b) write down a multiple of 7
	35
	(1)
	(Total for question 9 is 2 marks
	(Total for question 8 is 2 marks
	Write down two multiples of 8
	8, 16, 24, 32, 40
	<u> </u>
	(Total for question 9 is 2 marks

10	Write down all the factors of 14	
	1,14	
	1, 14	
		(Total for question 10 is 2 marks)
11	Write down all the factors of 20	
	1, 20	
	2, 10	
	1, 20 2, 10 4, 5	
		1, 2, 4, 5, 10 and 20 (Total for question 11 is 2 marks)
12	Here is a list of numbers.	
	30 31 32 33 34 35	36 37 38 39
	From the numbers on the list,	
	(a) write down and square number	
		36
	(a) write down and square number(b) write down a multiple of 8	***************************************
		(1) 32 (1)
	(b) write down a multiple of 8	(1)

13	Here is a list of numbers.	
	2 9 11 15 18	31 32
	From the numbers on the list,	
	(a) write down and factor of 8	
		2
	(b) write down a multiple of 6	(1)
		18
	(c) write down all of the prime numbers on the list.	(1)
		2, 11 and 31
»»««««»»»»		(Total for question 13 is 3 marks)
14	Write down all of the prime numbers between between 10	and 20
		11, 13, 17 and 19
		(Total for question 14 is 2 marks)
15	Write down two multiples of 20	
	20, 40, 60, 80,	100
		(Total for question 15 is 2 marks)
16	Write down all the factors of 16	
	1, 16	
	1, 16	
	Y	
		1,2,4,8 and 16
		(Total for question 16 is 2 marks)

17	Ian says:	"21 is a prime number"	
	Is Ian correct? You must give a reason for y	your answer. 3, 7	
1947 1164	No 21	has four factor	rs - prime
4.6+4 2.31			tal for question 17 is 1 mark)
18	Here is a list of numbers.		
	3	5 9 16 19 27 28	
	From the numbers on the lis	t,	
	(a) write down and factor of	12	
			3
	(b) write down a multiple o	f 7	(1)
		. •	28
	(c) write down all of the pri	me numbers on the list.	(1)
			3,5 and 19
· · ·		(Tot	tal for question 18 is 3 marks)
19	Gary is thinking of a numbe He says,	r.	
	• •	number is prime and it is a factor of 36"	
	There are two possible num	bers Gary can be thinking of.	
	Write down these two numb	ers.	
	1,36		
	(2), 18		
	(3) 12		
	4,9		
	6	2	3
		(Tot	tal for question 19 is 2 marks)

20	Write down two prime numbers that have a sum of 30		
	Prime numbers: 2, 3, 5,	7, 11, 13	, 17, 19
	23, 29		
	7 and 23 11 and 19	13 and	17
	11 and 19	7	, 23
XCHCARRON SACCAMANANA		(Total for o	question 20 is 2 marks)
21	Write down two prime numbers that have a sum of 19		
		2 ,	17
***************************************		(Total for q	uestion 21 is 2 marks)
22	Here is a list of numbers.		
	8 12 15 17 23	27 32	
	From the numbers on the list,		
	(a) write down and factor of 16		
			8
	(b) write down a multiple of 9		(1)
			27
	(c) write down all of the prime numbers on the list.		(1)
			7 and 23
		(Total for o	(1) (uestion 22 is 3 marks)

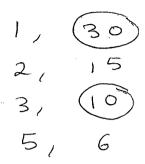
23	Barry is	thinking	of a	number
	•	_		

He says,

"My number is even. It is a factor of 30 and a multiple of 5"

There are two possible numbers Barry can be thinking of.

Write down these two numbers.



1	C
1	

30

(Total for question 23 is 3 marks)

Paul is thinking of a number.

He says,

"My number is odd. It is a factor of 18 and a multiple of 3"

There are two possible numbers Paul can be thinking of.

Write down these two numbers.