### 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

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1	Write down a multiple of 7 that is between 20 and 30	
2	Write down the first even multiple of 9	(Total for question 1 is 1 mark)
	Write down a multiple of 9 that is between 30 and 50	(Total for question 2 is 1 mark)
		(Total for question 3 is 1 mark)
	Write down a prime number between 25 and 35	
		(Total for question 4 is 1 mark)
	Write down two factors of 18	
		(Total for question 5 is 2 marks)

	Write down all the prime numbers	betwee	en 20 ai	nd 30			
						(Total for qu	estion 6 is 2 marks
	Write down two multiples of 10						
						(Total for qu	estion 7 is 2 marks
	Here is a list of numbers.						
	15 19	25	31	35	39	40	
	From the numbers on the list,						
	(a) write down an even number						
							(1)
	(b) write down a multiple of 7						(1)
							(1)
						(Total for a	(1)
						<u>(10tai 101 qu</u>	iestion o is 2 marks
	Write down two multiples of 8						
						, (Total for a	lestion 9 is 2 marks
_						(10001101 90	

									(Total	for qu	estion 1(	) is 2 mar
	Write down	all the	factors	of 20								
									(Total	for qu	estion 11	is 2 marl
2	Here is a list	ofnur	nbers.									
	From the nur	30 nbers c	31	32 st	33	34	35	36	37	38	39	
	(a) write dov	vn a sq	uare nu	mber								
	(b) write dow	vn a m	ultiple o	of 8								(1)
	(c) write dow	vn all c	of the pr	ime nu	mbers o	on the li	st.					(1)
										-		(1)
									(Total	<u>for qu</u>	estion 12	(1) 2 is 3 mar

13	Here is a list o	f numbers.							
		2	9	11	15	18	31	32	
	From the numb	ers on the l	ist,						
	(a) write down	a factor of	8						
	(b) write dowr	a multiple	of 6						(1)
	(c) write down	all of the p	orime nu	umbers o	on the li	st.			(1)
									(1)
								(1018110	r question 15 is 5 mari
								(Total fo	r question 14 is 2 marl
5	Write down tw	70 multiples	s of 20					(Total fo	r question 14 is 2 marl
5	Write down tw	70 multiples	s of 20					(Total fo	r question 14 is 2 marl
5	Write down tw	70 multiples	s of 20					(Total fo (Total fo	r question 14 is 2 marl

7	Ian says:	"21	is a prin	ne numb	per"			
	Is Ian correct? You must give a reas	on for your a	answer.					
							(Total for q	uestion 17 is 1 mark
	Here is a list of num	ıbers.						
		3 5	9	16	19	27	28	
	From the numbers or	1 the list,						
	(a) write down a fac	tor of 12						
	(b) write down a mu	ltiple of 7						(1)
	(c) write down all of	f the prime n	umbers	on the li	st.			(1)
								(1)
							<u>(Total for q</u>	uestion 18 is 3 mark
)	Gary is thinking of a He says,	number.						
		"My numb	er is prii	me and i	t is a fa	ctor of	36"	
	There are two possib	le numbers (	Gary can	be thin	king of.	•		
	Write down these two	o numbers.						

1	e numbers ti	lat nave	a sum o	of 30				
							,	
						(Total for q	question 20	0 is 2 mar
Write down two prime	numbers th	at have a	a sum o	of 19				
			u buill o	117				
						······································		
						,	uestion 21	is 2 mar
Here is a list of numb	ers					, (Total for q	uestion 21	is 2 mar
Here is a list of numb	ers.		17			, (Total for q	uestion 21	is 2 mar
Here is a list of numb	ers. 8 12	15	17	23	27	, ( <b>Total for q</b> 32	uestion 21	is 2 mar
Here is a list of numbers on the num	ers. 8 12 the list,	15	17	23	27	, ( <b>Total for q</b> 32	uestion 21	is 2 mar
Here is a list of numb From the numbers on t (a) write down a factor	ers. 8 12 the list, or of 16	15	17	23	27	, ( <b>Total for q</b> 32	uestion 21	is 2 mar
Here is a list of numb From the numbers on t (a) write down a factor	ers. 8 12 the list, or of 16	15	17	23	27	, (Total for q	uestion 21	is 2 mar
Here is a list of numb From the numbers on t (a) write down a facto (b) write down a mult	ers. 8 12 the list, or of 16 iple of 9	15	17	23	27	, (Total for q 32		<u>is 2 mar</u>
Here is a list of numbers From the numbers on a (a) write down a factor (b) write down a mult	ers. 8 12 the list, or of 16 iple of 9	15	17	23	27	, (Total for q 32	uestion 21	<u>is 2 mar</u> (1)
Here is a list of numb From the numbers on t (a) write down a factor (b) write down a mult	ers. 8 12 the list, or of 16 iple of 9	15	17	23	27	, (Total for q 32	uestion 21	(1)
Here is a list of numb From the numbers on t (a) write down a factor (b) write down a mult (c) write down all of t	ers. 8 12 the list, or of 16 iple of 9 he prime nu	15 mbers or	17 n the lis	23	27	, , (Total for q 32	uestion 21	(1)
Here is a list of numb From the numbers on t (a) write down a facto (b) write down a mult (c) write down all of t	ers. 8 12 the list, or of 16 iple of 9 the prime nu	15 mbers of	17 n the lis	23	27	, (Total for q 32	uestion 21	(1)

23	Barry is thin	ting of a number.
	He says,	"My number is even. It is a factor of 30 and a multiple of 5"
	There are tw	possible numbers Barry can be thinking of.
	Write down	hese two numbers.
		(Total for question 23 is 3 marks)
24	Paul is think He says,	ng of a number.
		"My number is odd. It is a factor of 18 and a multiple of 3"
	There are tw	possible numbers Paul can be thinking of.
	There are tw Write down	possible numbers Paul can be thinking of. hese two numbers.
	There are tw Write down	o possible numbers Paul can be thinking of. hese two numbers.
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