				imbers.	st of nu	Here is a lis	•	Q1.
	41	33	25	11	8	3		
		ich is	e list wh	from the	umber	te down a n	Wri	
				Γ,	number	an even r	(a)	
(4)								
(1)				Ar.	numbe	a square	(b)	
				<i>,</i>	numbe	a square	(6)	
(1)								
					of 11	a multiple	(c)	
(1)								
(Total 3 marks)								

Q2.		Here is a list	of eight	numbers							
		4	5	25	29	30	33	39	40		
	From the list, write down										
	(i)	a factor of	20								
	(ii)	a multiple	of 10								

.....

(iii) the prime number that is greater than 15

.....

(Total 3 marks)

Q3. Here is a list of numbers.

From the list, write down all the numbers which are **not** factors of 32

.....

.....

.....

(Total 2 marks)

- **Q4.** Here is a list of numbers.
- 2 4 5 6 7 8

From the list of numbers write down

- (i) an odd number
- (ii) a square number

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	(iii)	a multiple	e of 3							
	(iv)	a factor o	of 10							
										(Total 4 marks)
05		Horo io o li	ot of 9	numbor						
Q5.		3 nere is a lis	5	number 6	s. 8	9	10	11	16	
	Fror	m the list, w	rite dov	wn						
	(a)	two odd i	numbe	rs,						
									and	(1)
	(b)	two numl	oers wi	ith a sur	m of 15					
									and	(1)
	(c)	a factor o	f 12							
										(1)
	(d)	a multiple	e of 4							
										(1)
	Jam	ies says tha	t 10 is	a squar	re numb	er becau	use 5² =	10		
	(e)	James is Explain w	wrong							
										(1) (Total 5 marks)



From the numbers in the rectangle,

- (i) write down a multiple of 4,
- (ii) write down a factor of 21,
- (iii) write down a prime number.

(Total 3 marks)

.....

.....

Q7.

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6	8	1	0	J	
\langle	4 16	5	6 17		
6	~	\sim	ノ		

Using only the numbers in the cloud, write down

(i) an odd number

(ii) a multiple of 4

the value of 23

(iv)

(iii) two numbers which have a sum which is a prime number

.....

.....

.....

(Total 4 marks)

M1.

	Answer	Mark	Additional Guidance
(a)	8	1	B1 for 8 cao
(b)	25	1	B1 for 25 cao
(c)	33	1	B1 for 33 (or 11)
			Total for Question: 3 marks

M2.

	Answer	Mark	Additional Guidance
(i)	4 to 5	1	B1 for 4 to 5
(ii)	30 to 40	1	B1 for 30 to 40
(iii)	29	1	B1 cao
			Total for Question: 3 marks

M3.

|--|

		Total for Question: 2 marks
		[B1 for 1 or 2 correct numbers (– 1 for each extra number given)
12, 20 and 40	2	B2 cao (– 1 for each extra number given)

M4.

	Answer	Mark	Additional Guidance
(i)	5 or 7	4	B1 5 or 7
(ii)	4		B1 cao
(iii)	6		B1 cao
(iv)	2 or 5		B1 2 or 5
			Total for Question: 4 marks

M5.

	Answer	Mark	Additional Guidance
(a)	Two of 3, 5, 9, 11	1	B1 cao
(b)	5, 10 or 6,9	1	B1 cao
(c)	3 or 6	1	B1 for 3 or 6
(d)	8 or 16	1	B1 for 8 or 16

			showing diagramatically that 10 is not a square number Total for Question: 5 marks
(e)	e.g. "5 ² = 25"	1	B1 for correct explanation, e.g. $5^2 = 25$ or $3^2 = 9$ and $4^2 = 16$ so 10 cannot be a square number or

M6.

	Answer	Mark	Additional Guidance
(i)	12	1	B1 for 12 cao
(ii)	3	1	B1 for 3 cao
(iii)	3 or 11	1	B1 for 3 and/or 11 cao
			Total for Question: 3 marks

M7.

	Working	Answer	Mark	Additional Guidance
(i)		5 or 17	1	B1 5 or 17 or both
(ii)		4, 8, or 16	1	B1 for one, two or three of 4, 8 or 16
(iii)		5 and 6	1	B1 5 and 6 oe
(iv)		8	1	B1 cao
			-	Total for Question: 4 marks

E1. This question too was well understood with almost all candidates gaining full marks; however a small minority gave odd numbers instead of evens and 3 instead of a square number.

##

It was inevitable that some candidates would confuse factors and multiples, but the majority were able to answer (i) & (ii) correctly. Part (iii) was less well answered with candidates unable to remember what a prime number was, with many of each of the numbers greater than 15 being selected.

E4. Most parts of this question were well attempted, but in part (ii) performance was poor, with many candidates unable to identify the "4" from the list as the square number.

E5. 95% of candidates could identify 2 odd numbers from the list given and the great majority could identify a pair of numbers whose sum was 15 though some gave the pair whose product was 15. Parts (c) and (d) of the question were also well answered though some candidates gave 4, a number which did not appear in the list given, as a factor of 12. Explanations given in part (e) were generally correct, clear and succinct. The main loss of marks in this part was due to attempts to explain that square numbers "go into themselves" or confusion between the terms square and prime.

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E6. Part (i) was well answered. However, in parts (ii) and (iii) there was much miss-understanding of the terms "factor" and "prime". In the former candidates chose numbers that were not factors, or 42, and in the latter chose numbers that were not prime numbers.