1. Find the two numbers which multiply together to make 30 and add together to make 17.

2. Write numbers in the boxes below to make the statement true.

$$15 \times 20 = 5 \times$$
 = 6 ×

-----[1]

3.

Peter says

The sum of an odd number and an even number is even.

The example 3 + 4 = 7 shows that Peter is **not** correct.

Write an example to show that this statement is not correct.

Squaring a whole number always results in an even number.

4. The product of three numbers is 312. Two of the numbers are 3 and 13.

What is the third number?

_____ [3]

_____ [2]

[2]



(b).	. 517 × 16									
6.	Choose from this list									[2]
		17	18	25	28	39	72			
	two numbers with a diffe	erence of 14	,							
								and _		
7.	Two numbers have a su	m of 4 and a	a differenc	e of 18. Oi	ne of the n	umbers is	positive ar	nd the other	is negativ	[1] e.
	Find the two numbers.									
								ar	nd	
										[2]

_____ [1]

8(a). Sam has these number cards.



Complete the following problems using Sam's number cards.



[1]

(b). 629 - 447

(c). 254 × 32

.1

_____ [1]

_____ [3]

F



11. Complete the following statements.



[2]

[1]

[1]



12. Sukrit and Anna are playing a game called 'Make 100'. Sukrit says a 2-digit number. Anna says the number that has to be added to this to make 100.
For example, if Sukrit says 60, Anna says 40 as 60 + 40 = 100.
Complete these two games.

Sukrit says 36, Anna says _____

Sukrit says 81, Anna says _____

13. Work out.

(i) 8 ÷ 100

(i)	[1]
-----	-----

[1]

(ii) $\frac{8+9}{-2}$

(ii)				_			_	_	_	_	_	_	_	_	_	_	_	_			_	_	_	_	_	_	[1]	
------	--	--	--	---	--	--	---	---	---	---	---	---	---	---	---	---	---	---	--	--	---	---	---	---	---	---	----	---	--

(iii) 4 + 8 × 3

(iii) _____ [1]

END OF QUESTION PAPER

Qı	uestio	n	Answer/Indicative content	Marks	Part marks a	nd guidance
1			2 and 15	2	Mark final answer M1 for a pair as final answer that either multiplies together to 30 or adds to 17 Examiner's Comments Was well attempted by most candidates with many correct answers. Those who did not earn 2 marks usually scored the part mark for a pair of values which multiply together to make 30, usually 3 and 10 or 5 and 6.	For M1, accept non- integers or negatives
			Total	2		
2			60 50	2	B1 for each	
			Total	2		
3			An odd integer squared with correct result	1	e.g. 5 ² = 25	
			Total	1		
4			8	3	M1 for dividing by 3 or 13 M1 for dividing by remaining factor	M1 for multiplying 3 by 13 M1 for dividing by 39 or listing multiples of 39
			Total	3		
5	а		544	1		
	b		8272	2	M1 for full correct method with one arithmetic mistake	
			Total	3		
6			39 and 25	1	Accept in either order Examiner's Comments This question was well answered with the majority of candidates giving the correct value.	

Qı	Question		Answer/Indicative content	Marks	Part marks and guidance				
			Total	1					
7			–7 and 11	2	B1 for a pos and neg value with a sum of 4 or a difference of 18	Examiner's Comments This proved very challenging although many were able to give a negative and positive integer that had a sum of 4 or a difference of 18 to gain partial credit. For those that obtained the correct answer, trial and improvement was a successful strategy used.			
			Total	2					

Q	uestio	n	Answer/Indicative content	Marks	Part marks a	nd guidance
8	а		6	1	Examiner's Comments	
					Very well answered.	
	b		5	1	Examiner's Comments	
					This proved difficult for some with a common error of 1 sometimes given.	
	C		3 and 5 and 6 or 3 and 6 and 5 or 1 and 2 and 5 or 1 and 5 and 2	2	B1 for a correct multiplication shown in working eg 5 × 2 = 10 Examiner's Comments Answers were more varied, there were several correct options for candidates to choose and many were successful. A number invented their own cards however in this part and gave a calculation than worked, but not with the cards provided.	Allow B1 for a correct answer using <i>their</i> cards
	d		2 6	1	Examiner's Comments Very well answered.	
			Total	5		

Q	uestio	n	Answer/Indicative content	Marks	Part marks a	nd guidance
9	а		1108	1	Examiner's Comments This was usually answered correctly especially by the majority who used the column method for addition.	
	b		182	1	Examiner's Comments Weaker candidates often failed to cope with the need to "borrow" and simply subtracted the smaller digits from the larger digits to arrive at 222.	
	С		8128	3	3M2 for any complete method with 1 arithmetic error or M1 for any complete method with 2 arithmetic errors Examiner's Comments This part was answered using many different methods other than the traditional long multiplication (including Napier's Bones and various different applications of a grid method). It has to be said that these "newer" methods are relatively successful although many marks were lost through errors in the simple arithmetic required to complete the grids or through a failure to sum the various components correctly.	Do not condone conceptual errors
			Total	5		

Q	uestio	n	Answer/Indicative content	Marks	Part marks a	nd guidance
10			59 & 28 63 & 6	2	B1 for 3 correct Examiner's Comments Most candidates made a confident start to the paper with few mistakes seen. The few errors which occurred were usually in the tens digit or applying the wrong operation such as adding instead of subtracting.	
			Total	2		
11		i	8	1		
		ii	-11	1	Examiner's Comments Part (i) was answered very well but part (ii) caused difficulty and required a more problem solving approach. The common error was to give the answer 11 rather than –11.	
			Total	2		
12			64, 19	1	Examiner's Comments This was generally well answered with only the weakest slipping up.	
			Total	1		

Q	uestio	n	Answer/Indicative content	Marks	Part marks and guidance
13		i	0.08 or 2/25	1	Examiner's Comments This part was usually well answered.
		ii	–8.5 or –8½	1	Examiner's Comments However, in this part quite a few candidates got the calculation wrong, with 15 (coming from $8 + 9 - 2$) and 3.5 (from $8 + 9 \div -2$) being common wrong answers.
		iii	28	1	Examiner's Comments Similarly, 36 was a common error in this part.
			Total	3	