1



Choose two cards each time to make the following two-digit numbers.

The first one is done for you.



1 mark



1 mark

5

Here are three digit cards



Choose two cards each time to make the following two-digit numbers.

The first one is done for you.

an even number

a prime number



6

5

a common factor of 60 and 90


a common multiple of 5 and 13

I		
I		
I		
I		

2 marks

Any number can be written as a product of its prime factors, for example:

 $20 = 2 \times 2 \times 5$ 



Write 90 as a product of its prime factors.



Write all the possible square numbers Lara could have chosen.

ZIIIdik

6

7

8

9	Write a cross on the numbers that are <u>not</u> square numbers.							
	1 <sup>3</sup> 2 <sup>3</sup>	3 <sup>3</sup>	4 <sup>3</sup>	5 <sup>3</sup>			1 mark	
10	Write the three prime numbers which multiply to make 231						THAN	
	ίκ <sub>α</sub>	× [		× [	= 231	I	1 mark	
11	Emma thinks of two prime numbers.							
	She adds the two numbers together.							
	Her answer is 36							
	Write all the possible pairs of prime numbers Emma could be thinking of.							
	<b>A</b>							
12							2 marks	
	Chen chooses a <b>prime</b> number.							
	He multiplies it by 10 and then rounds it to the nearest hundred.							
	His answer is <b>400</b> .							
	Write <b>all</b> the possibl	le prime number	s Chen co	uld have chos	sen.			

2

2 marks

13

Here are some number cards.

κ.

Joe picks two **even** numbers. Dev picks two **odd** numbers.

Joe gives one of his cards to Dev. Dev gives one of his cards to Joe.

Joe says,

## 'Now my cards are both square numbers'.

Dev says,

## 'Now my cards are both multiples of 5'.

What numbers did they each start with?

