

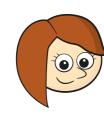
Recognise and identify prime numbers

a) Complete the sentence.

Prime numbers are positive integers that have exactly

______ factors.

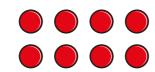
b)



7 is a prime number.

Explain why Rosie is correct.

c) Aisha makes an array with 8 counters.



Explain why this shows that 8 is not a prime number.

Circle the prime numbers.

 1
 3
 5
 9
 10
 11

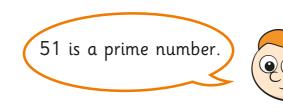
 12
 14
 15
 17
 19
 21

Here is part of a hundred square.

31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70

- Shade all the multiples of 2
 Shade all the multiples of 3
 Shade all the multiples of 5
- Shade all the multiples of 7

b)



Explain	how	HOLL	know	Ron	has	made	a	mistak	(F
-Apraiii		904	1111011		1143	maac	~	mocan	••

- c) Give a prime number between 50 and 60
- Scott rolls a fair dice numbered 1 to 6



What is the probability that it lands on a prime number?



5	Dexter is working out whether some large numbers are prime numbers.	
	I know that	
	720,372 is not prime.	
	195,765 is not prime.	
	6,139,044 is also	
	not prime.	
	For each number, explain why Dexter is correct.	
	720,372 is not prime because	
	195,765 is not prime because	
	6,139,044 is not prime because	
6	7 is a prime number, so any number that ends in a 7	
	is also a prime number.	
	For example,	
	both 17 and 127 are	
	prime numbers.	
	Do you agree with Dora?	
	Explain your answer.	
7	a) Amir thinks of two prime numbers.	
	The sum of my prime numbers is 30	
	What two numbers is Amir thinking of?	

Is there more than one possible solution?

/hat number is Ar there more than number 13 is prima	one possib		on?		
number 13 is prim		le solutio	on?		
	e. If you re				
	es with the			is also prim	e.
are some digit (cards.				
	2	3	5		
all the 3-digit pri	me numb	ers you	can make	with these	cards.
ain how you arri	ved at thi	s answe	er.		
	all the 3-digit pri	all the 3-digit prime numb	2 3 all the 3-digit prime numbers you	2 3 5	2 3 5 all the 3-digit prime numbers you can make with these

b) Annie is thinking of a different number.

