			White R©se Maths	
Make and test co	njectures		Maths	3 I think when you add the factors of a num
				(other than the number it the sum will always be l than the number.
	To find the lowest common multiple of two numbers, you multiply them together.			Rosie's statement is sometimes correct a) Give an example of when Rosie's
a) Give an example to	show when Dexter's statemer	nt is true.		b) Give an example of when Rosie's
This is true when fir b) Give an example to	ading the LCM of a show when Dexter's statemer	nd nt is false.		
This is false when fi	nding the LCM of	Ind		 Annie investigates the sum of two pr She finds that 5 + 7 = 12
2 Decide whether the cor	ijectures are always, sometime	es or never true		 She also finds that 23 + 3
Conjecture	Always true Sometimes			Annie conjectures that the sum of tw always equal to a multiple of 2
An even number plus an even number alway gives an even answer	Js			Prove that Annie is correct.
a + b = b + a]	
a - b = b - a				
2 <i>a</i> = 5 <i>a</i>				

Discuss your answers with a partner.



ct.

statement is correct.

statement is not correct.

rime numbers.

31 = 54

vo prime numbers greater than 2 is

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Here are three number cards.

15 12 8

Find the three differences between each pair of numbers. Work out the product of the differences.

15 – 12 = 15 – 8 = 12 – 8 = Product of differences = X X =

Repeat with three different integers.

What do you notice about the product in each case? Is this always true?

Filip finds that the LCM of 5 and 6 is 30

He also finds that the LCM of 17 and 18 is 306

He notices that $5 \times 6 = 30$ and $17 \times 18 = 306$

Filip conjectures that the LCM of two consecutive numbers is equal to the product of the two numbers.

Investigate Filip's conjecture.

7	Choose a 2-digit number.
	Use a calculator to divide by 99
	Make a conjecture about the decimal denominator of 99
	Test some answers and then make a c
	My conjecture is
8	Take any 2-digit number and add it to
	For example, 54 + 45 = 99
	Investigate with other examples. Wha
	Write a conjecture from your findings
	Can you use counters or cubes to prov
	Test your conjecture using 3-digit num

equivalents of a fraction with a

conjecture.

to the reverse of the 2-digit number.

at do you notice?

•

ve it?

nbers.



