



Teddy rolls two dice.



a) He finds the product of the scores and makes a conjecture.

The product of the scores on the two dice is always even.

Find a counter-example.

## x 5=5

**b)** He conjectures again.

If the product of the scores on the two dice is even, then the sum of the scores will also be even.

Is this conjecture correct? If not, find a counter-example.

1×2=2 but 1+2=3 No.



Dora works out the perimeter and area of this rectangle



perimeter = 24.4 m area = 28.8  $m^2$ 

Dora makes this conjecture.

If a rectangle's perimeter is not an integer, then neither is its area.

Do you agree with Dora's conjecture? <u>No</u>

Justify your answer.

3.25 + 3.25 + 8+8= 22.5

3.25 ×8=26

8	The range of five numbers is 1 The smallest number is 3 Aisha thinks the median must be 3.5, is in the middle. Give a counter-example to Aisha's cor
	<u>e.g. 3, 3, 3, 4</u>
9	Two spinners are spun and the results 4 $1$ $3$ $2$ $2$ $3$ $2$ $3$ $3$ $2$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$ $3$
	The second spinner has the factors of Huan makes a conjecture about the p Esther finds a counter-example, which What was Huan's conjecture?



## , as the greatest number is 4 and 3.5

onjecture.

ts are multiplied.



spinner 2

of 15 written on it.

product of the two numbers.

ch is  $1 \times 1 = 1$ 



ecture?



