

Always, Sometimes or Never? – Statement Cards

Are the following statements always true, sometimes true or never true?

When you add two even numbers together the answer is even	When you add two odd numbers together the answer is odd	If you add an even number to an odd number the answer is even
When you multiply by an odd number the answer is odd	When you multiply by an even number the answer is even	Doubling a number results in an even number
When you multiply a number by itself the answer is even	The sum of four even numbers is divisible by four	Adding three consecutive numbers results in an even number

<http://nrich.maths.org/12670>

Key questions

Can you think of an example when it isn't true?

How do you know that it is always true?

Is it possible to check all examples? Is there another way of knowing?