

Cube Number Extension Task

1) Look at this Carroll diagram:

	Odd	Even
Cube Number	111, 216	512, 16
Not a Cube Number	27, 343, 18	36, 12, 64



a) Ben and Sophia have been asked to sort a group of numbers into the correct places in the Carroll diagram. Circle any numbers which they have put in the wrong place and show where these numbers should be placed.

b) Ben and Sophia must decide whether this statement is true or false.

Cubes of even numbers are always even and cubes of odd numbers are always odd.

Explain whether you think the statement is true or false. Then, prove it by adding 5 more cube numbers to the Carroll diagram in the correct places.

2) Is this statement always, sometimes or never true?
The last digit of a cube number is the same as the last digit of its cube.