

**Objective: properties of numbers and place value**

**Year 1 Task: Sorting numbers by their properties**

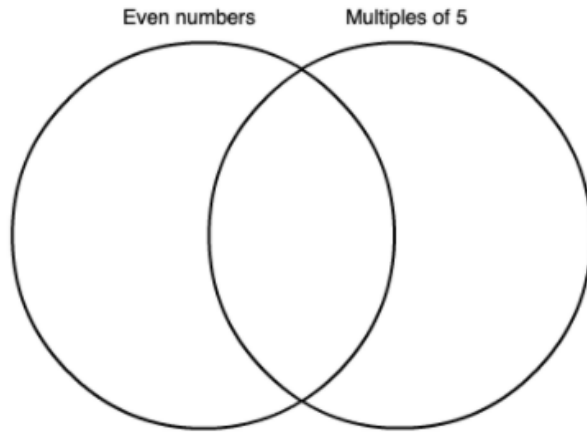
Taken from:

<https://nrich.maths.org/6290>

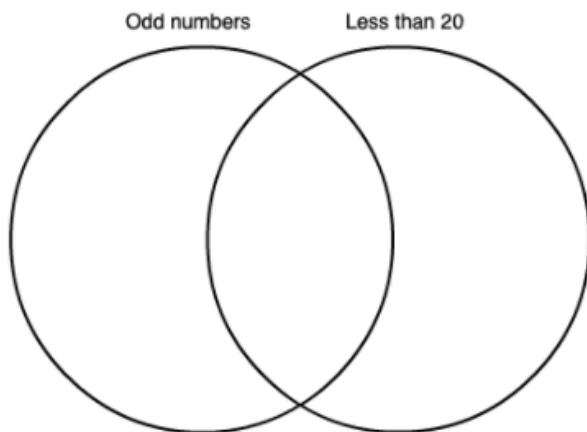
## Venn Diagrams

Age 5 to 11 ★

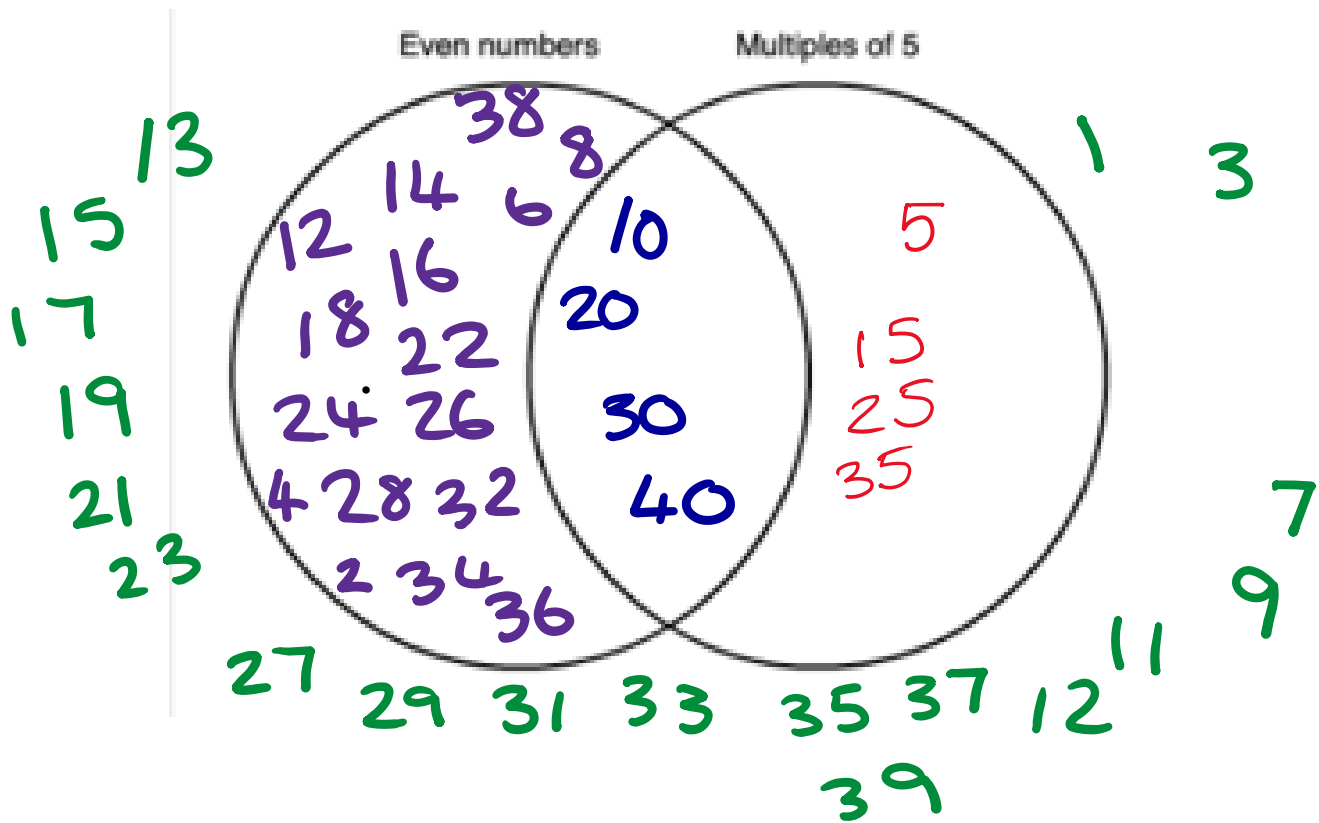
Can you place the numbers from 1 to 40 into this Venn diagram?  
How do you know where to put each number?



Here is another one for you to try:



**Worked example**



The blue numbers have both the qualities of the circles so they go in the overlapped section as they are multiples of 5 AND even.

The green numbers go around the outside as they are not multiples of 5 or odd

**Variation**

**Breaking the problem down**

Get children to sort the numbers into 2 piles but do not worry about using the Venn diagram.

**Challenge**

Can you think of other ways you can sort the numbers using a Venn diagram?

Use some of the properties below:

- Multiples of 2
- Multiples of 10
- Odd numbers
- Even numbers
- Multiples of 5
- Numbers below/over...

