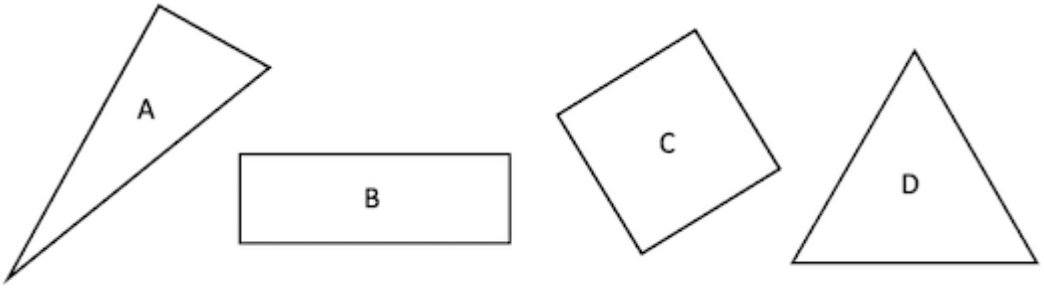
Data Duos

Age 7 to 11
Challenge Level

Here are four shapes (they are labelled A, B, C and D):



What do you notice?

In how many different ways could you sort the shapes?

Kerstin sorts the shapes in three different ways.
She creates a Venn diagram and a Carroll diagram for each way of sorting.

Here are the three Carroll diagrams she makes...

Carroll number 1:

	Triangle	Not triangle
Regular	D	C
Irregular	A	B

Carroll number 2:

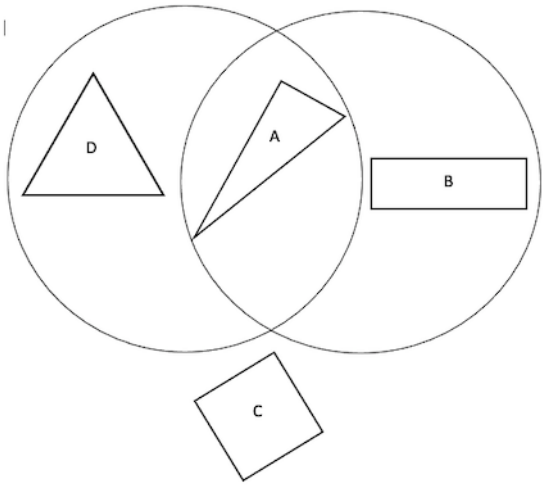
	Has at least one right angle	Has no right angles
Has at least one line of symmetry	C, B	D
Has no lines of symmetry	A	

Carroll number 3:

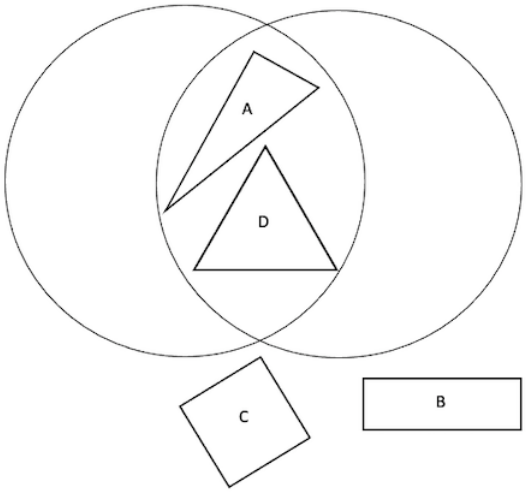
	Has at least one acute angle	Has no acute angles
Quadrilateral		C, B
Not quadrilateral	A, D	

Here are the three Venn diagrams, but she hasn't labelled them yet.

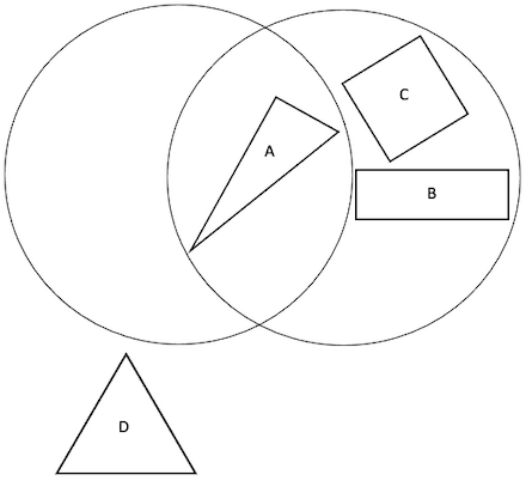
Venn number 1:



Venn number 2:



Venn number 3:



Can you match the Carroll diagram to the Venn diagram showing the same way of sorting the shapes?
Can you add labels to each Venn diagram?

We would love to hear about how you approached this task.

You may find it helpful to print out this sheet which has copies of all six diagrams on it.

This task was inspired by a 2009 SATs question.