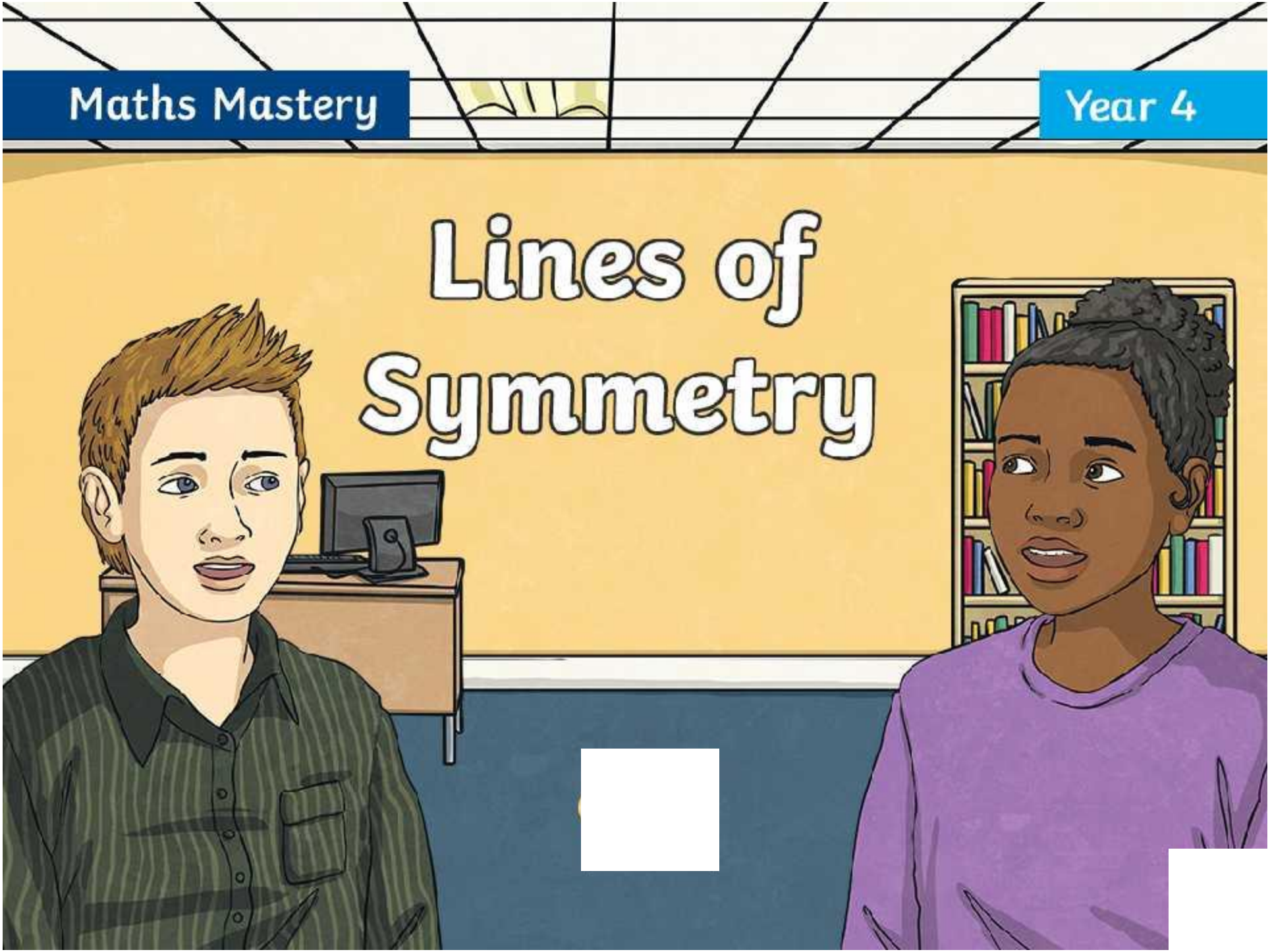
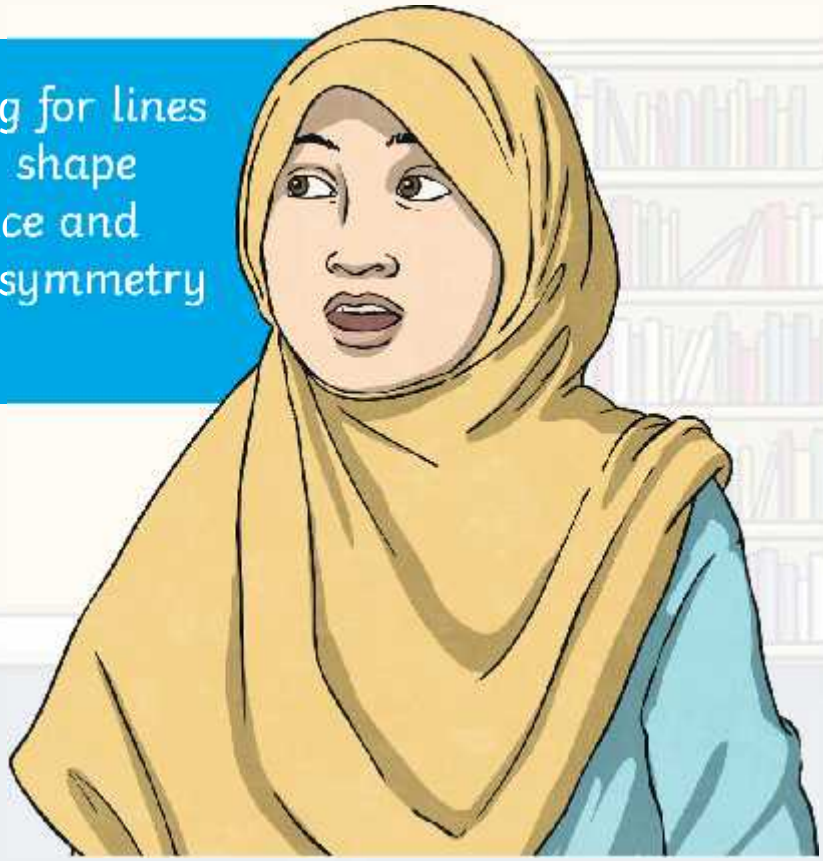

Maths Mastery
Year 4
Lines of Symmetry

Recognising Lines of Symmetry

Fatima has some advice when looking for lines of symmetry, "It can help to hold the shape you are looking at in front of your face and turn the shape around so the line of symmetry is vertical."



Lines of Symmetry in Triangles

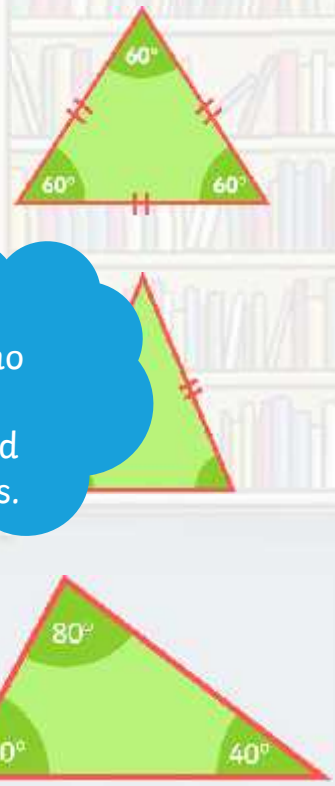
Alfie creates a Carroll diagram in which some triangles have been classified according to symmetry. Discuss with a partner where equilateral, isosceles and scalene triangles will go in this Carroll diagram.

	Has at le... of sym...	
Has some equal sides		
Has no equal sides		

All equilat... triangles ... line... symmetr... equal s...

An isosceles triangle has 1 line of symmetry and 2 equal sides.

A scalene triangle has no lines of symmetry and no equal sides.

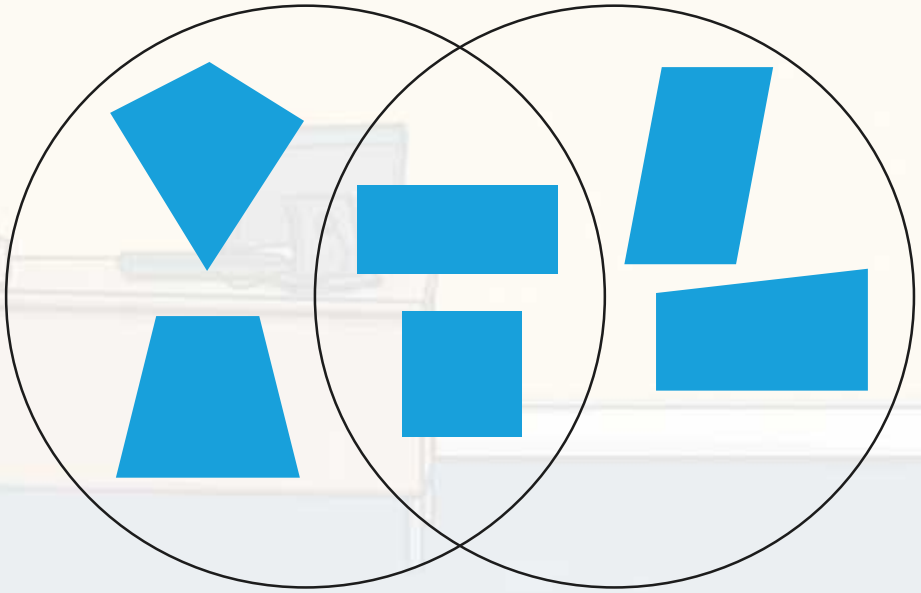


Classifying Quadrilaterals

Laura creates a Venn diagram classifying quadrilaterals according to symmetry and parallel sides. Unfortunately, Laura has made some mistakes. With a partner, discuss how you would correct the Venn diagram.

Has at least 2 lines of symmetry

Has at least one pair of parallel sides



Both the kite and the isosceles trapezium only have one line of symmetry.

The isosceles trapezium has 1 pair of parallel sides.

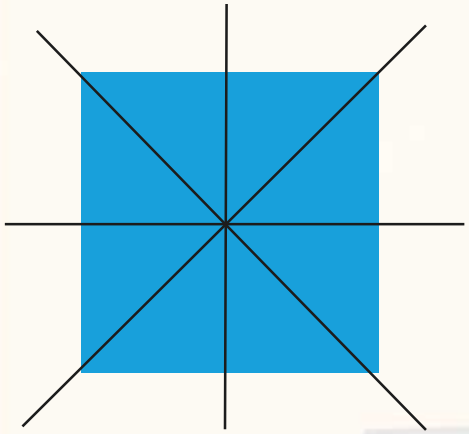
Create your own Venn diagram where quadrilaterals are classified according to symmetry.

Lines of Symmetry in Quadrilaterals

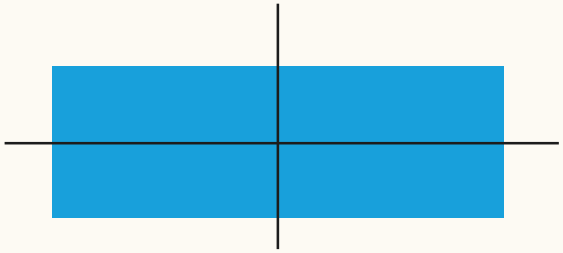
Laura investigates the number of lines of symmetry in the following quadrilaterals. Complete the table and compare your ideas with a partner.

Shape	Number of Lines of Symmetry
Square	4
Rectangle	2
Parallelogram	0
Rhombus	2
Kite	1
Trapezium	Some have 1, some 0

Lines of Symmetry in Quadrilaterals **Answers**

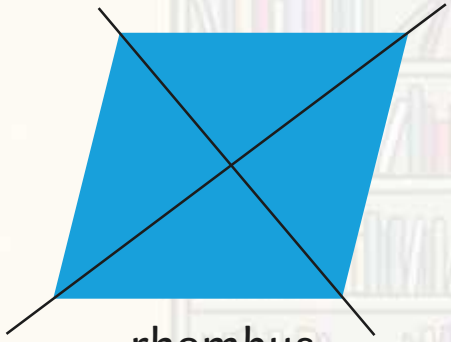


square

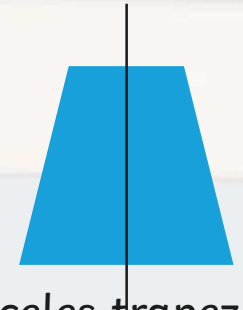


rectangle

parallelogram

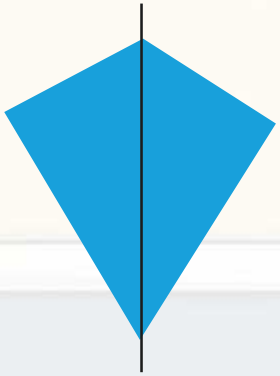


rhombus



isosceles trapezium

trapezium



kite