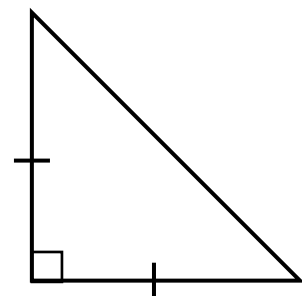
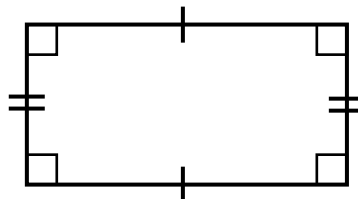
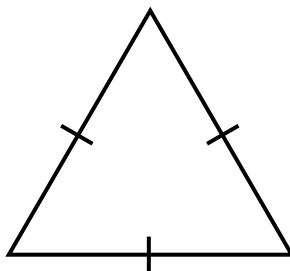
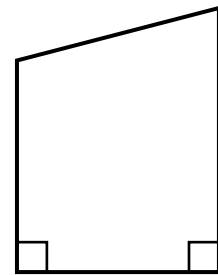
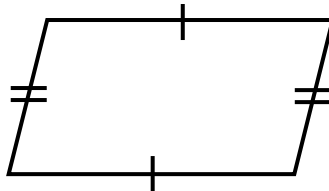
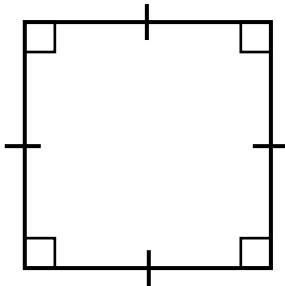
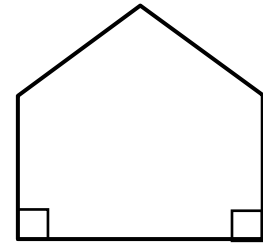
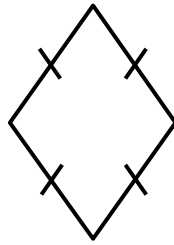
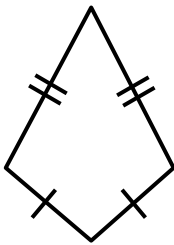


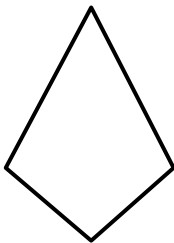
Cut out the nine shape cards and arrange them into a 3×3 grid using the clues below:

1. The equilateral shapes are all in different columns.
2. Each shape in the middle row has two sets of parallel lines.
3. The shapes in the top two corners each have exactly one line of symmetry.
4. One of the rows contains a total of 10 sides.
5. The square is in a corner below the parallelogram.
6. The shape in the centre has all angles the same, but its diagonals do not intersect at right angles.
7. The shape with two pairs of equal adjacent sides is not in the same column as the square.
8. The shape with the most sides is in the bottom right hand corner.

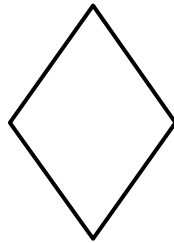


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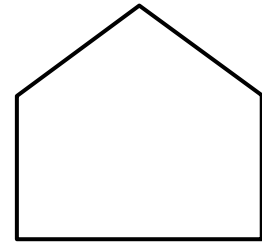
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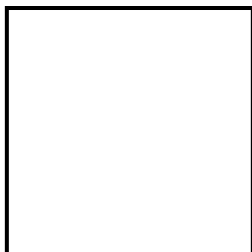
kite



rhombus



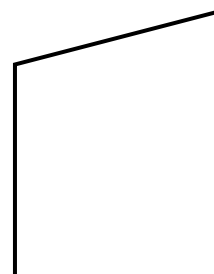
pentagon



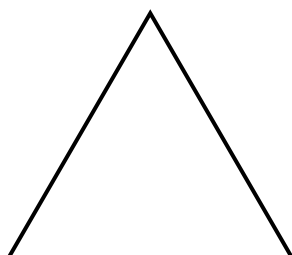
square



parallelogram



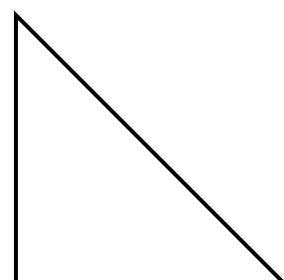
trapezium



equilateral triangle



rectangle



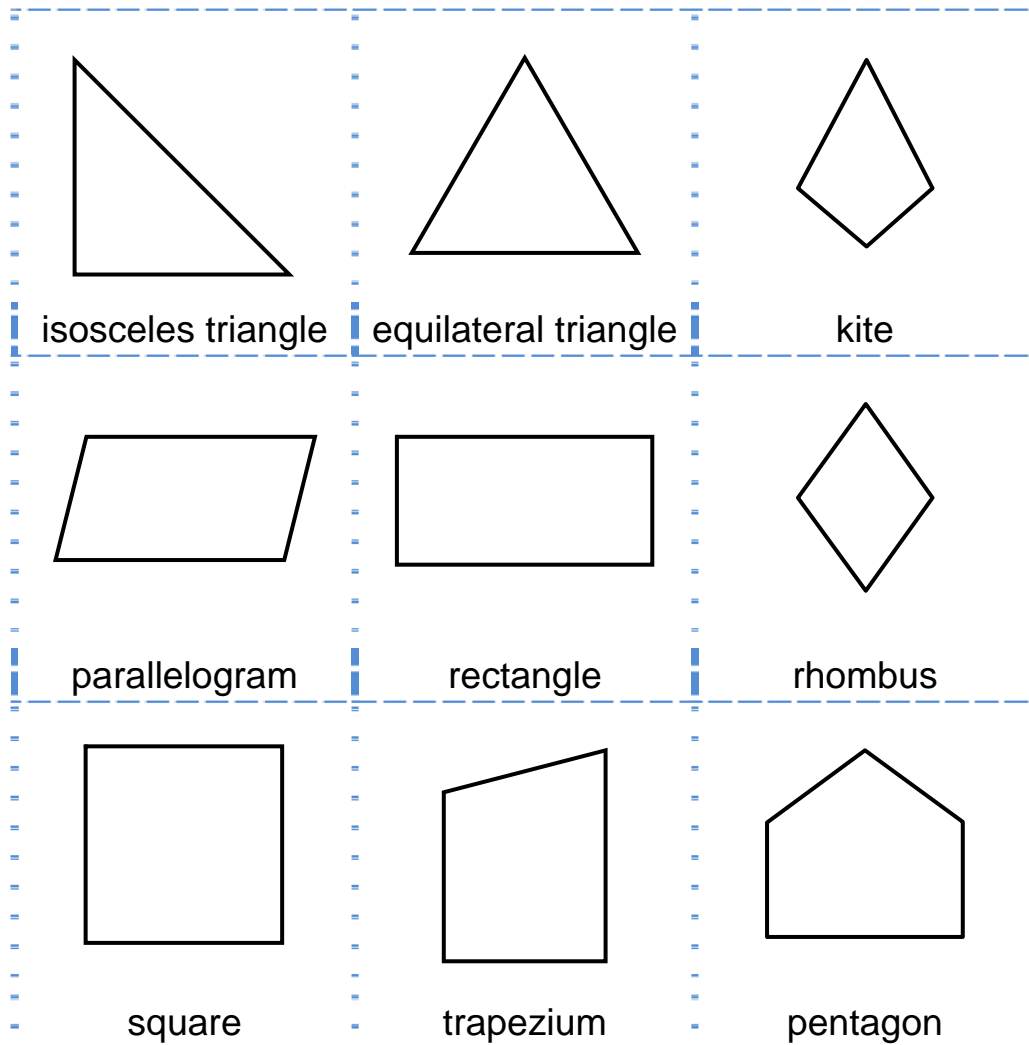
isosceles triangle

## Teaching notes

This activity works best in pairs or small groups, as an interesting way to discuss properties of shape.

Two differentiated sheets are provided – labelled shapes or named shapes. For each, you could ask students to fully label the shapes (parallel lines, equal angles, diagonal intersections) before they start the main activity.

Both sheets are available in interactive formats from Teachit Maths – [www.teachitmaths.co.uk](http://www.teachitmaths.co.uk), quick search: '22118'. Perfect for class discussion on an interactive whiteboard!



### One suggested method:

- Clue 6:** The rectangle is in the middle.
- Clue 8:** The pentagon is in the bottom right corner.
- Clue 3:** The isosceles triangle and kite are in the top two corners.
- Clue 4:**  $3 + 3 + 4$  is the only way to make 10 from these shapes, so the two triangles are in the same row; the equilateral triangle must be top centre
- Clue 5:** The square is in the bottom left corner (last remaining corner). The parallelogram must be middle left.
- Clue 1:** The rhombus is middle right. The trapezium is in the last space – bottom centre.
- Clue 7:** The kite is top right, so the isosceles triangle is top left.