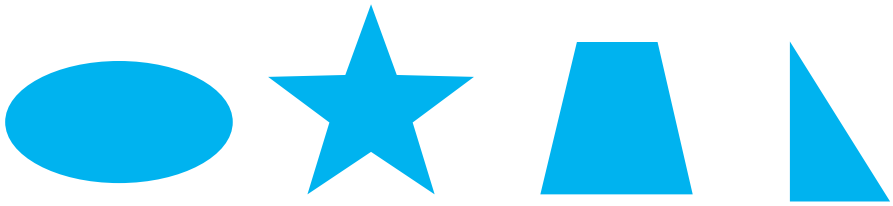
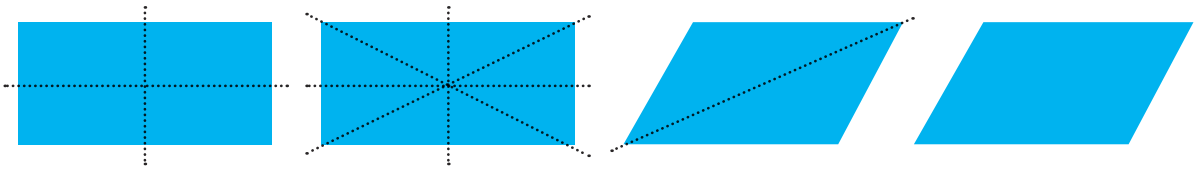
1) Draw all of the lines of symmetry on these shapes using a ruler.



How many lines of symmetry does each shape have? Write the answer under each shape.

2) Circle the shapes that have all their correct lines of symmetry drawn on:



Trace over any incorrect lines of symmetry in a different colour.

1) Are these statements always, sometimes or never true?

a) A triangle has at least one line of symmetry. _____

b) A circle has an infinite number of lines of symmetry. _____

c) A pentagon has ten lines of symmetry. _____

d) A parallelogram has no lines of symmetry. _____

2) This line of symmetry is incorrect.
Explain why:

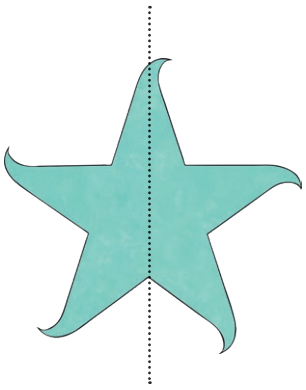
_____

_____

_____

_____

_____



1) Zainab says, "2D shapes with straight edges always have the same number of sides as lines of symmetry."

Investigate her statement.

Is she correct? _____

How do you know?

_____

_____

If she is incorrect, what mistake has she made?

_____

_____

2) A regular pentagon has _____ lines of symmetry.

Investigate if it is possible to draw an irregular pentagon with:

- 1 line of symmetry;
- 2 lines of symmetry;
- 3 lines of symmetry;
- 4 lines of symmetry;
- more than 5 lines of symmetry.