Steppingstone activity
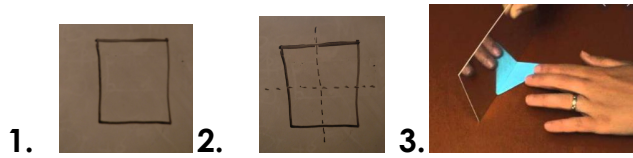
LO: To identify lines of symmetry

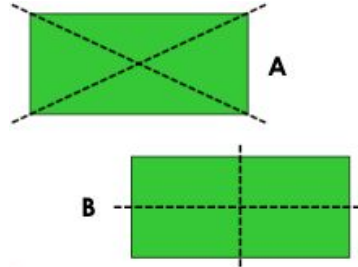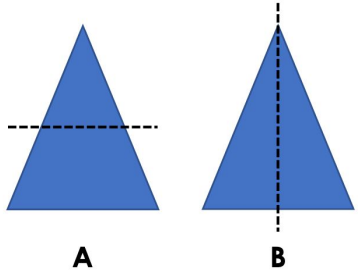**Success Criteria:**

1. Look at your shape
2. Identify a line of symmetry
3. If you can, use a mirror

Model

1.   2.   3.

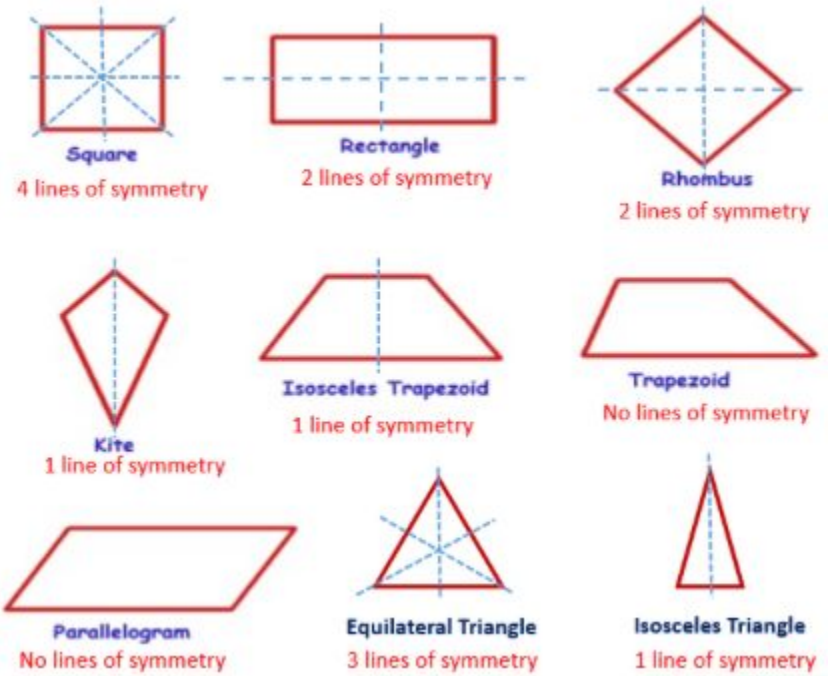**Now you try... Which shape has the correct lines of symmetry marked?**

A   B

A

B

Square
4 lines of symmetry

Rectangle
2 lines of symmetry

Rhombus
2 lines of symmetry

Kite
1 line of symmetry

Isosceles Trapezoid
1 line of symmetry

Trapezoid
No lines of symmetry

Parallelogram
No lines of symmetry

Equilateral Triangle
3 lines of symmetry

Isosceles Triangle
1 line of symmetry

Match the halves that go together to make symmetrical shapes.

A

B

C

D

A

B

C

D

Year 4 Maths

Lesson 05.06.20

LO: To identify lines of symmetry

Success Criteria:

1. Look at your shape
2. Identify a line of symmetry
3. If you can, use a mirror

==Model:==

1. 2. 3.4.

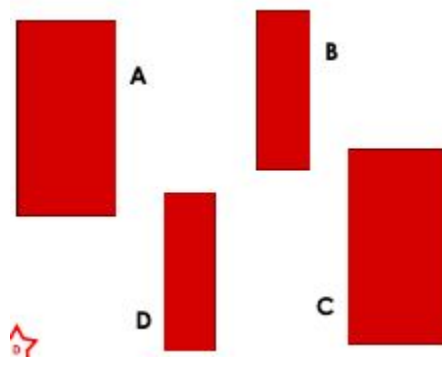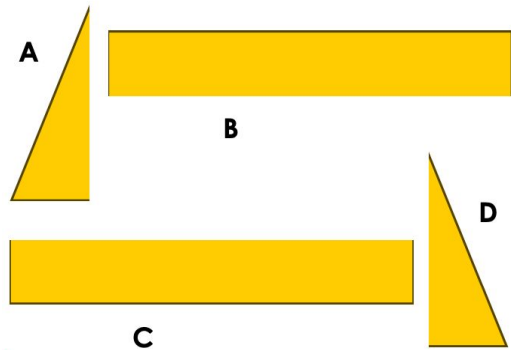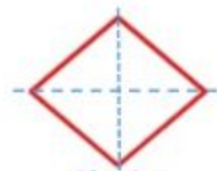What is symmetry? When something is symmetrical one side is a mirror image of the other side. A line of symmetry is the line you can draw to show that both sides are the same. When you need to draw the other side of a symmetrical shape you can use a mirror to help you.
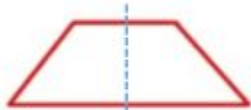
Square
4 lines of symmetry

Rectangle
2 lines of symmetry

Rhombus
2 lines of symmetry

Kite
1 line of symmetry

Isosceles Trapezoid
1 line of symmetry

Trapezoid
No lines of symmetry

Parallelogram
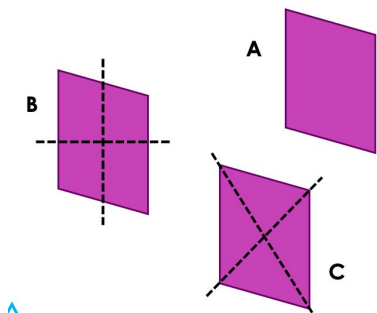No lines of symmetry

Equilateral Triangle
3 lines of symmetry

Isosceles Triangle
1 line of symmetry
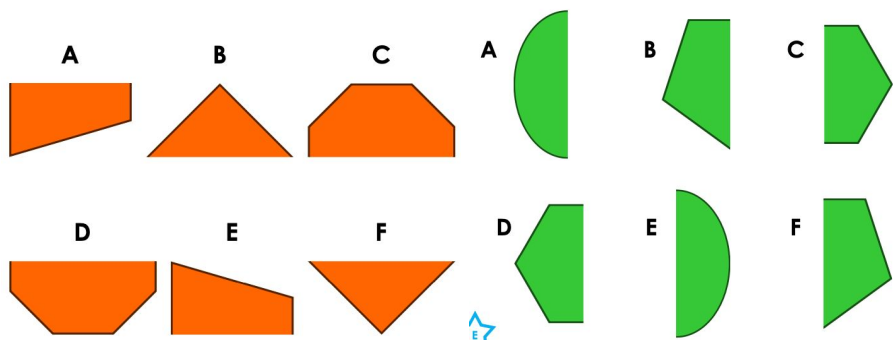
Year 4 Maths Main activity

Complete at least 2 columns, more if you can!

Task 1	Task 2
Practice: Which shape has the correct lines of symmetry marked?	**Practice:** Which shape has the correct lines of symmetry marked?

Task 1

Practice: Which shape has the correct lines of symmetry marked?

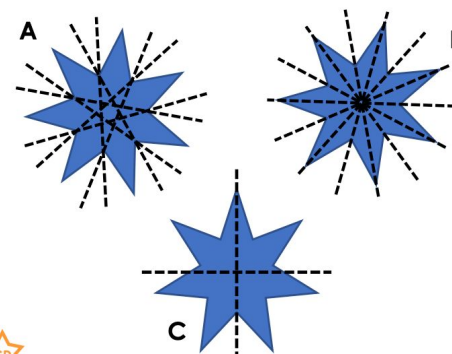**Match the halves that go together to make symmetrical shapes.**

Draw a symmetrical shape on this line

Task 2

Practice: Which shape has the correct lines of symmetry marked?

Match the halves that go together to make symmetrical shapes.

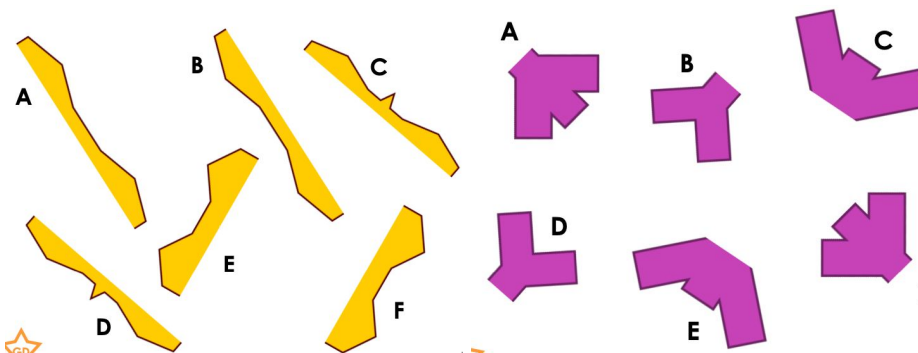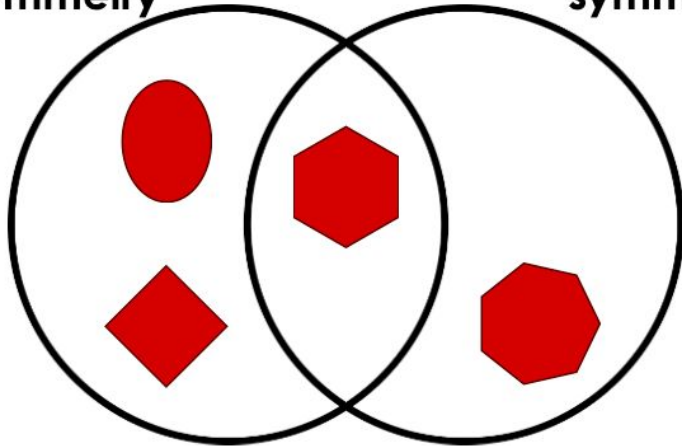**Draw a symmetrical shape on this line**

Task 3

Reasoning
Explain your answers.

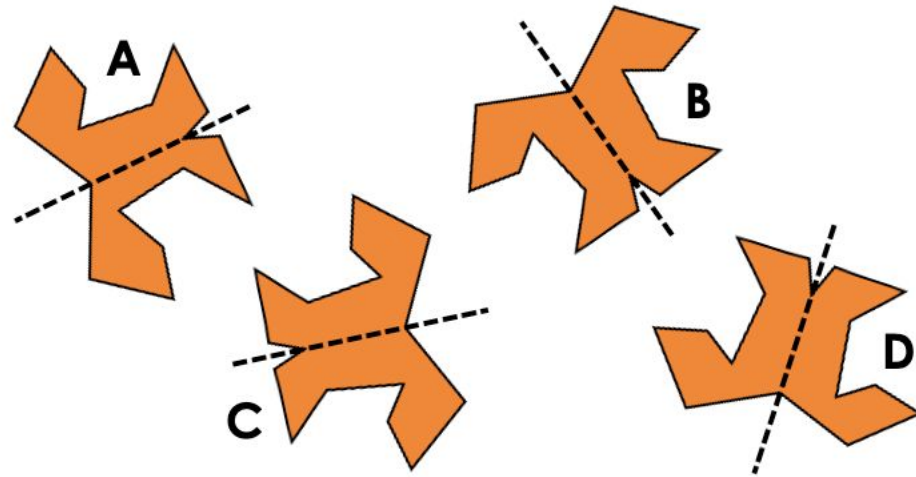**4a.** Pauline has filled in this Venn diagram with shapes.

Vertical line of symmetry

> 3 lines of symmetry

Find and explain her mistake.

9a. Here are 4 attempts at drawing reflections.

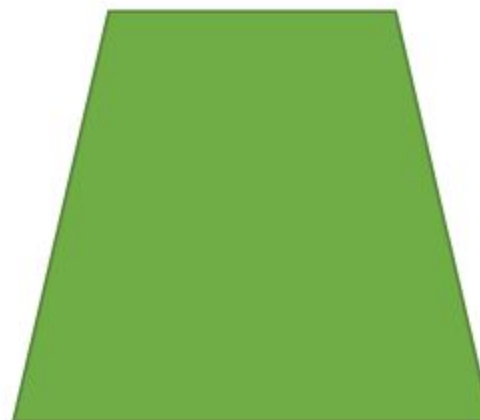Find the reflections that are not symmetrical. Explain why.

Task 4

Problem solving

1. Investigate the number of sides and lines of symmetry within regular and irregular polygons.

regular
polygon

irregular
polygon

Record your findings.