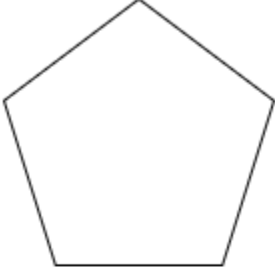
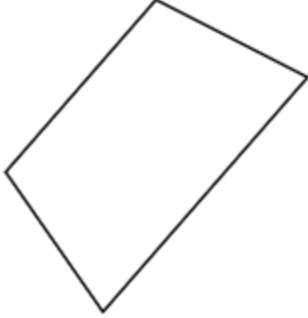
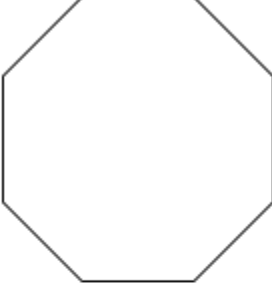
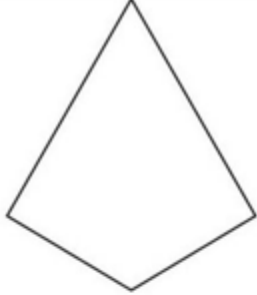
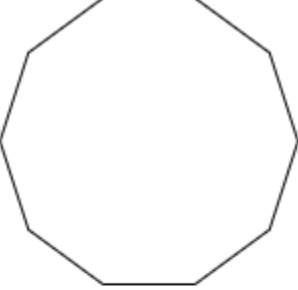
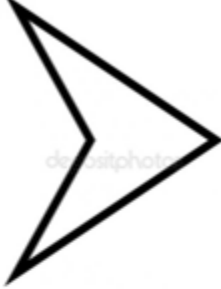




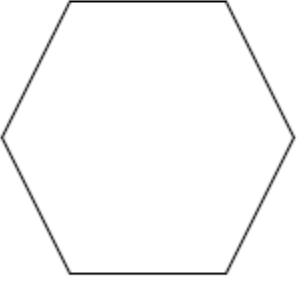
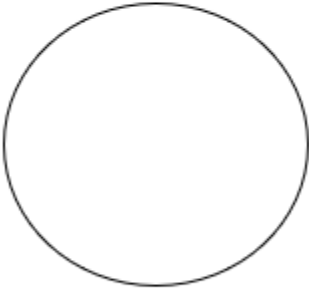




*Beauchamps High School
and
The Bromfords School and Sixth Form College
Maths Transition Project*

Nothing New, Just a Review: Identifying 2D Shapes

Using the list of words below, write down the name of each of these shapes:

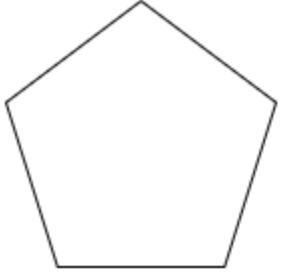
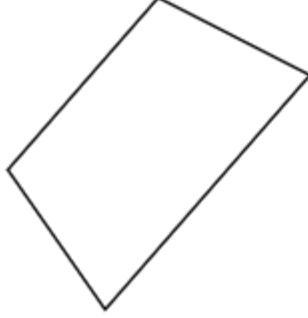
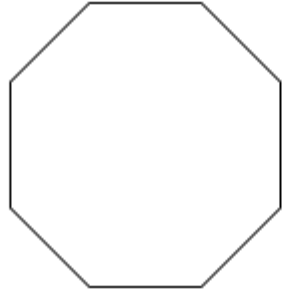
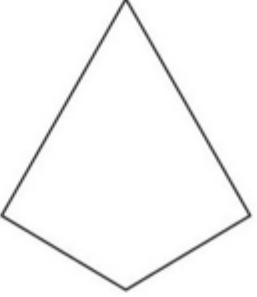
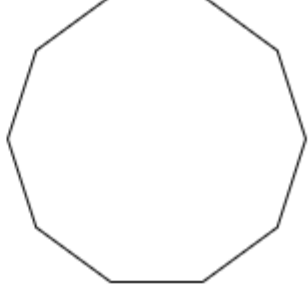
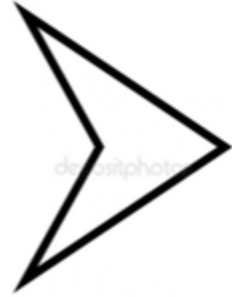

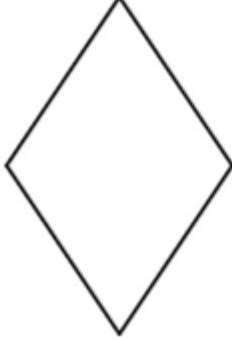


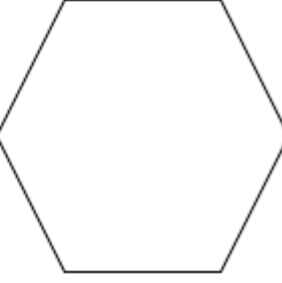
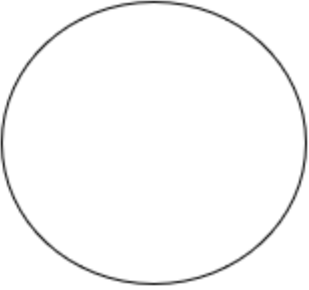
					
					

rhombus	kite	hexagon	trapezium	pentagon	isosceles triangle
arrowhead	semicircle	circle	decagon	parallelogram	octagon



Answers

Using the list of words below, write down the name of each of these shapes:

					
Pentagon	Trapezium	Octagon	Kite	Decagon	Arrowhead
					
Isosceles Triangle	Rhombus	Parallelogram	Semi-Circle	Hexagon	Circle

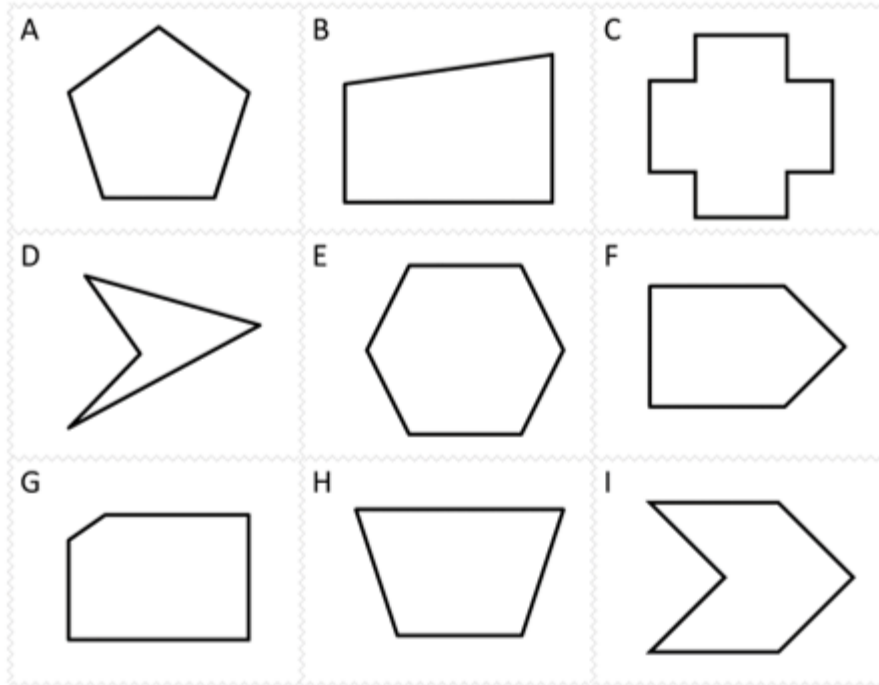
rhombus	kite	hexagon	trapezium	pentagon	isosceles triangle
arrowhead	semicircle	circle	decagon	parallelogram	octagon

Which Shape Am I?



- 1) • I am not a quadrilateral.
• I have parallel lines.
• I am a hexagon.
• I have a reflex angle.
• Who am I?

Shape ____

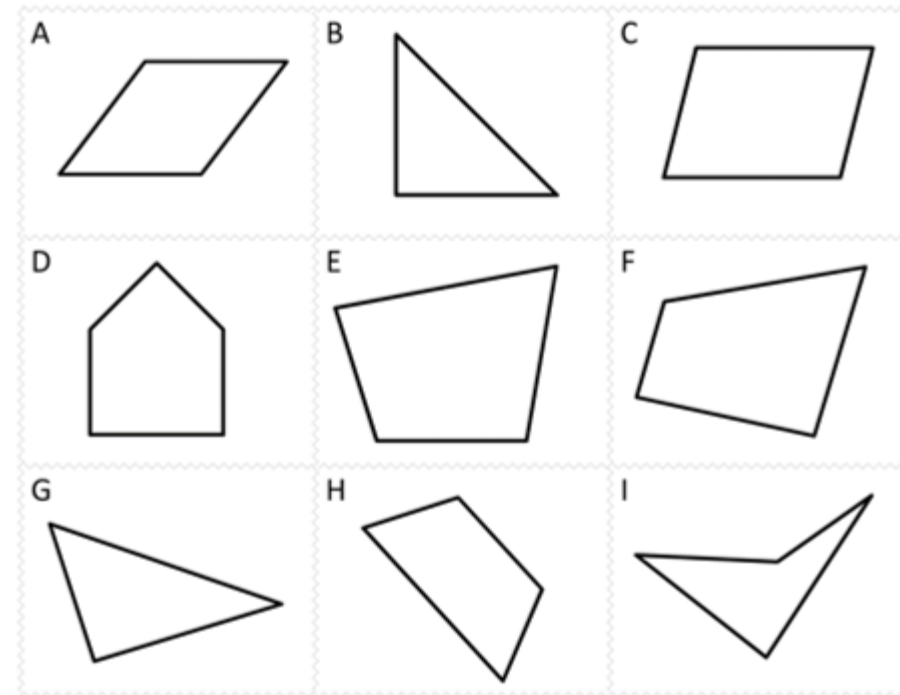


- 2) • I am not regular.
• I have fewer than 8 sides.
• I have 2 pairs of parallel lines.
• I have 2 obtuse angles.
• Who am I?

Shape ____

- 1) • I am not a regular shape.
• I have no parallel lines.
• I have some acute and some obtuse angles.
• Who am I?

Shape ____



- 2) • I have some parallel lines.
• I have a line of symmetry.
• I have no right angles.
• My sides are not all the same length.
• Who am I?

Shape ____

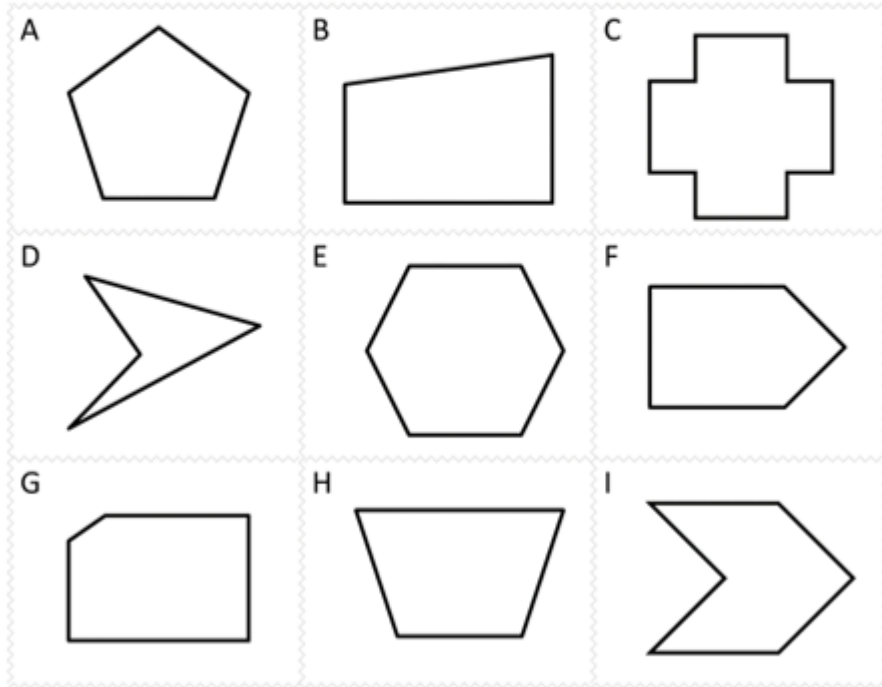
Answers:

- 1) • I am not a quadrilateral.
• I have parallel lines.
• I am a hexagon.
• I have a reflex angle.
• Who am I?

Shape **I**

- 2) • I am not regular.
• I have fewer than 8 sides.
• I have 2 pairs of parallel lines.
• I have 2 obtuse angles.
• Who am I?

Shape **G**

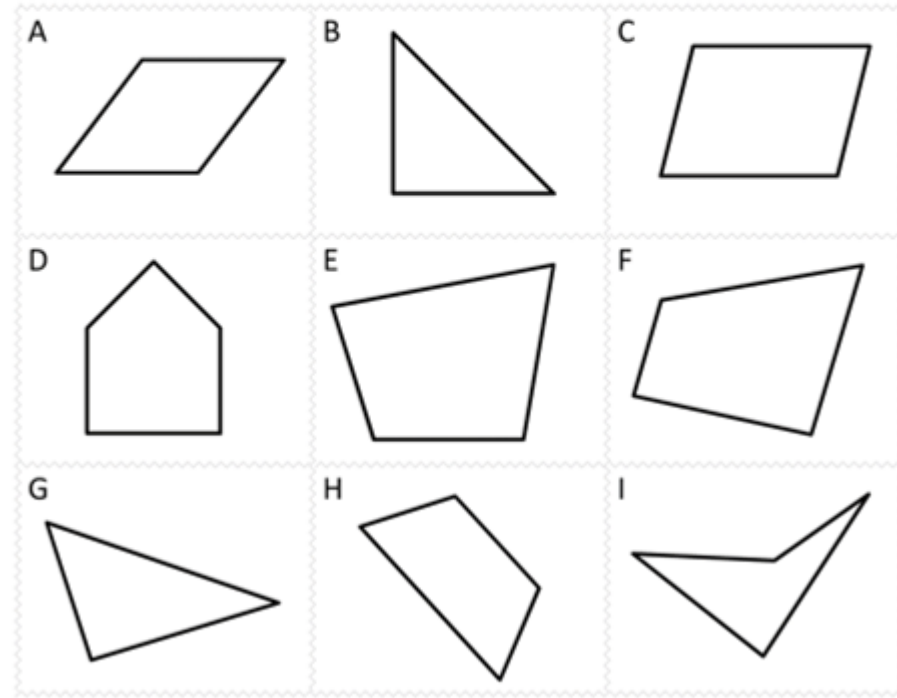


- 1) • I am not a regular shape.
• I have no parallel lines.
• I have some acute and some obtuse angles.
• Who am I?

Shape **E**

- 2) • I have some parallel lines.
• I have a line of symmetry.
• I have no right angles.
• My sides are not all the same length.
• Who am I?

Shape **H**





Can you explain what a polygon is?

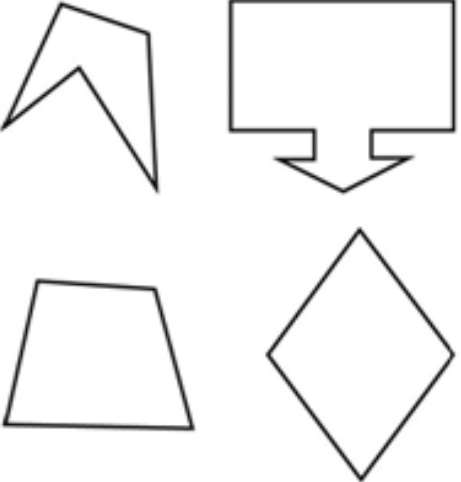
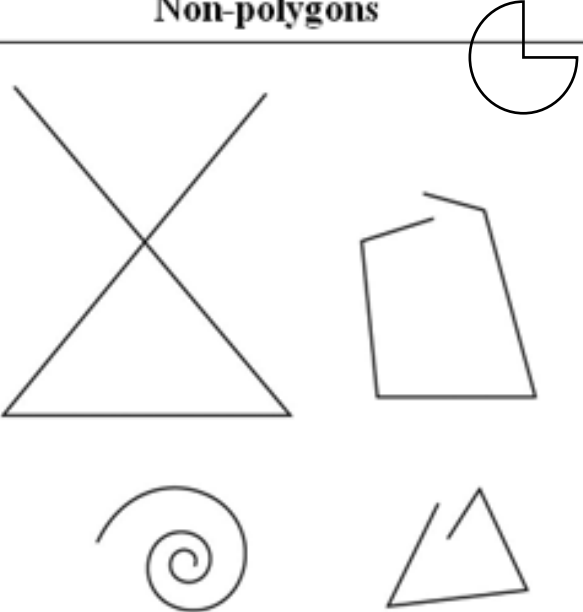




Polygons

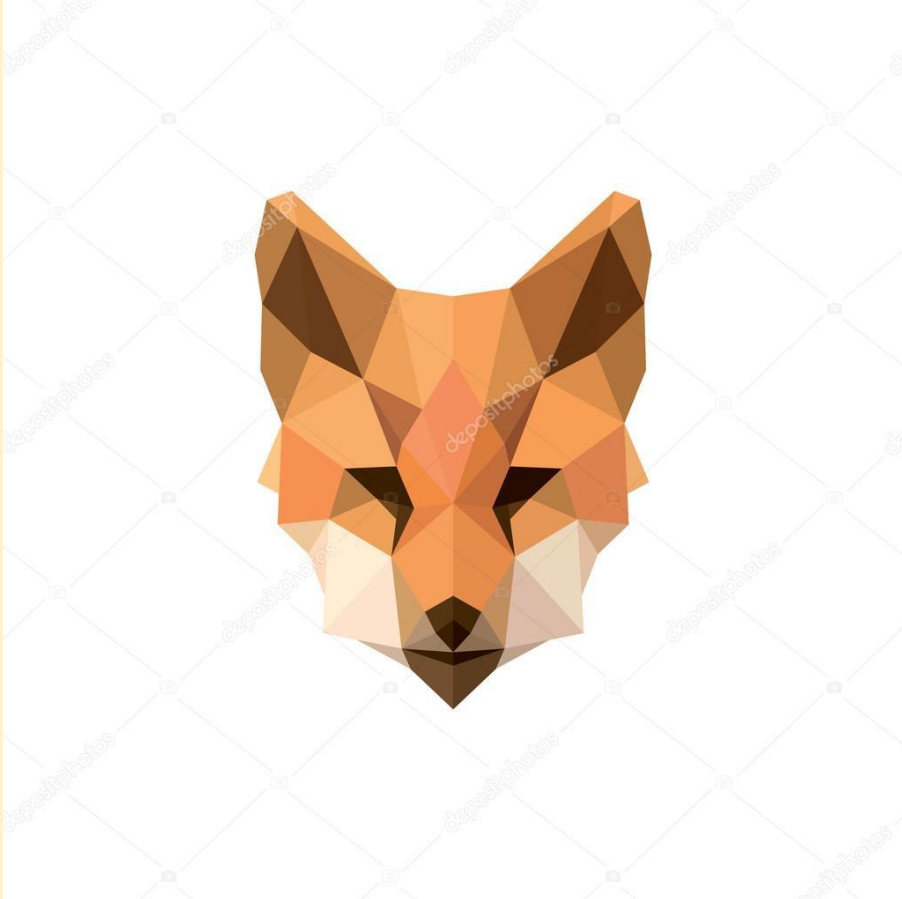


A polygon is any 2D shape which has three or more sides. All of the sides must be straight. There must be no gaps in the shape, and the sides cannot cross each other. If any of the sides are curved, the shape is not a polygon.

Polygons	Non-polygons
	



Logos

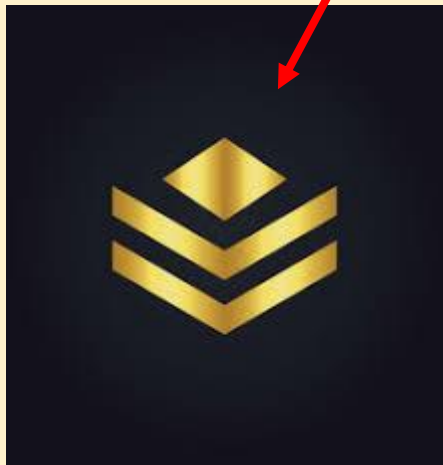


Here's an example of a logo of a fox's face, which has been made using only polygons.

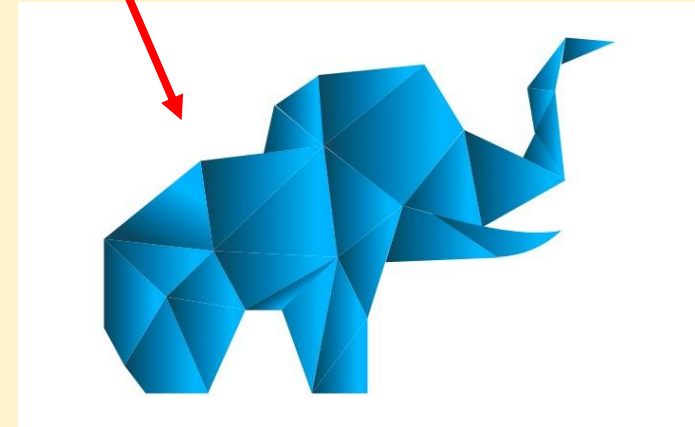
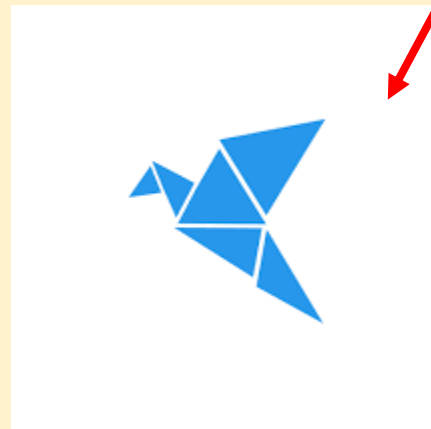
At first glance, it looks like the shape is made with lots of curved sides, but the logo is in fact made using lots of triangles and quadrilaterals.



Here's an example of a basic logo using just three polygons. Two arrows and a quadrilateral.



Here's two examples of more complex logos. Both of them are images of animals created using many triangles joined together. Can you see what animals they are?





Beauchamps/Bromfords School Logos



Your Task:



Red Task: Can you recreate your school's logo using only polygons?



Green Task: Can you completely re-design your school's logo using only polygons?

What you need: Pencil, ruler, colouring pencils