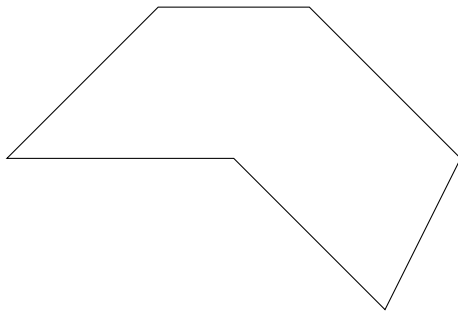
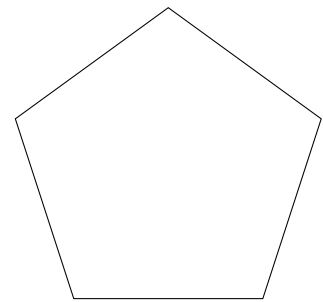


1. (a) Write down the mathematical names of these polygons. {pent/ hex/ oct/ dec/ -agon}

(i)



(ii)



(b) How many sides has a decagon?

2. (a) Here are 4 solid shapes. {plus cuboid, cone, hexagonal prism and pyramid}

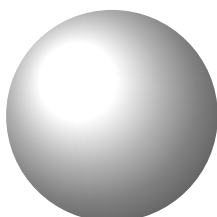
Match each solid shape to its mathematical name.

One has been done for you.

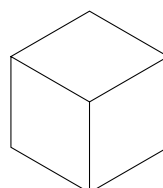
The shapes on the left are: a tetrahedron (pyramid), a square-based pyramid, a hexagonal prism, and a triangular prism. The labels in boxes on the right are: Pentagonal prism, Square based pyramid, Triangular prism, and Triangular based pyramid. An arrow points from the hexagonal prism to the 'Pentagonal prism' label.

(b) Write down the mathematical names of each of these 3-D shapes.

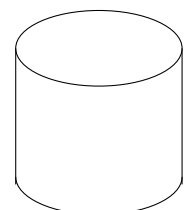
(i)



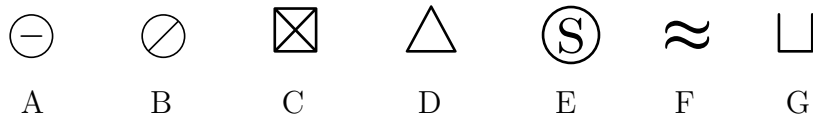
(ii)



(iii)

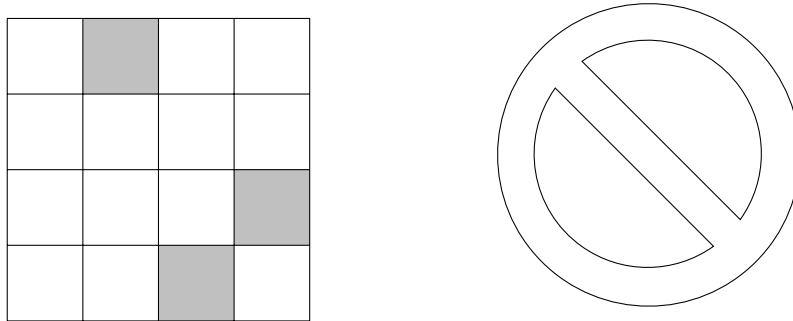


3. (a) Here are seven symbols.



Two of these symbols have exactly 2 lines of symmetry.
Write down these **two** letters.

(b) On the shape {below left}, shade **one** square so that the shape has 2 lines of symmetry.



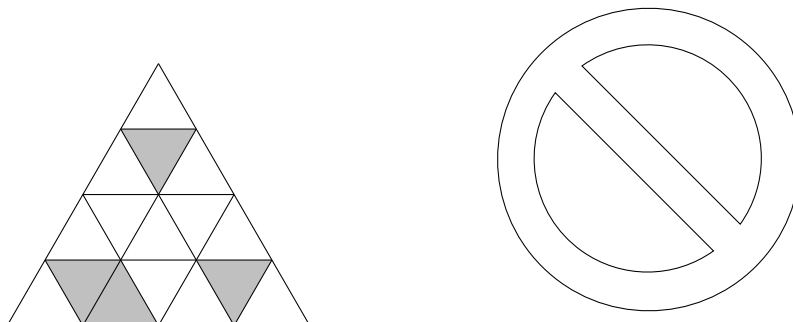
(c) On the shape {above right}, draw all the lines of symmetry.

4. (a) Here are nine symbols.



Two of these symbols has rotational symmetry of order 2 and no line symmetry.
Write down the letters of these **two** symbols.

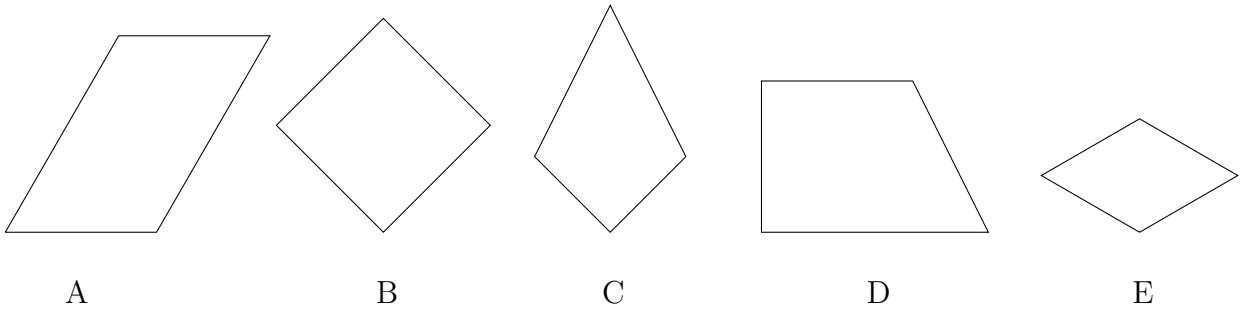
(b) On the shape below{left}, shade **one** square so that the shape has 2 lines of symmetry.



(c) The shape {above right}, has rotational symmetry.
Write down the order of rotational symmetry of this shape.

(d) The shape {above right}, has rotational symmetry of order 2.
Mark with a cross (×) the centre of rotation.

5. (a) Here are five quadrilaterals. {also rectangle, square}
{also equilateral, isosceles, right and scalene triangles}



- (i) Write down the mathematical name of quadrilateral **D**
(ii) Write down the letter of the rhombus.
- (b) A triangle {or quadrilateral} has three {or four or no} equal angles {or sides}
Write down the mathematical name of this triangle.
- (c) On the grid below, draw an isosceles triangle. {or parallelogram or trapezium}

