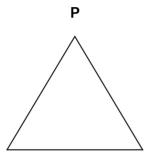
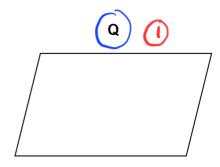
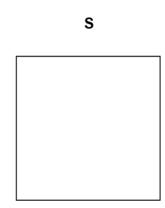
1 Circle the letter of the shape that has rotational symmetry of order 2

[1 mark]

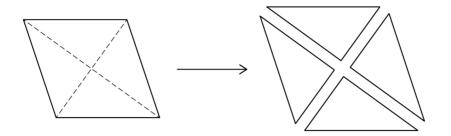




R



2 A rhombus is cut along the diagonals to make four triangles.



Not drawn accurately

Which **three** statements are correct for any rhombus? Tick **three** boxes.

[2 marks]

/
---

All four triangles are right-angled



All four triangles are isosceles



All four triangles are congruent



Area of rhombus =  $4 \times$  area of one triangle



Perimeter of rhombus =  $4 \times perimeter$  of one triangle

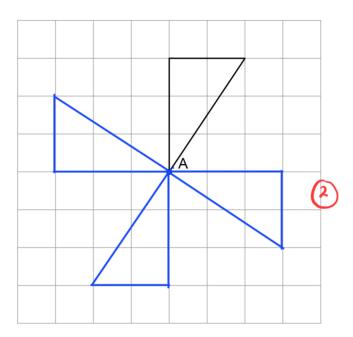
Which shape **can** have sides with lengths that are all different?

Circle your answer.

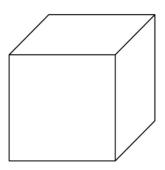


4 Complete the diagram so that it has rotational symmetry of order 4 centre of rotation at point A.

[2 marks]



5 Which of these is a correct statement about a cube?



Tick **one** box.

<b>✓</b>	It has 12 edges.
	It has 12 faces.
	It has 12 planes.
	It has 12 vertices.

6 Part of a regular polygon with 15 sides is shown.

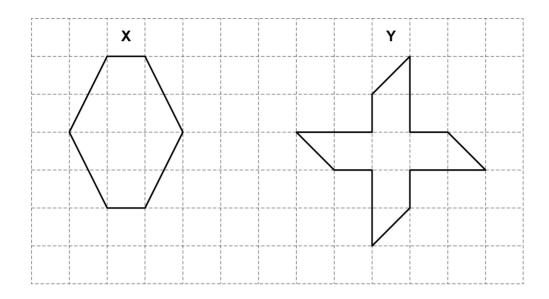


Work out the size of an interior angle.

(15 -2) x 1	80 =	2340	= 156	
15	<u>()</u>	15		

	156 O	
Answer	- 76	degrees

7 Shapes X and Y are shown on a centimetre grid.

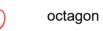


7 (a) Circle the name of shape X.

[1 mark]

pentagon





decagon

**7 (b)** Give a reason why shape **Y** is **not** a regular polygon.

[1 mark]

Sides are not equal



7 (c) Complete these statements.

[2 marks]

The number of lines of symmetry of shape  $\boldsymbol{X}$  is





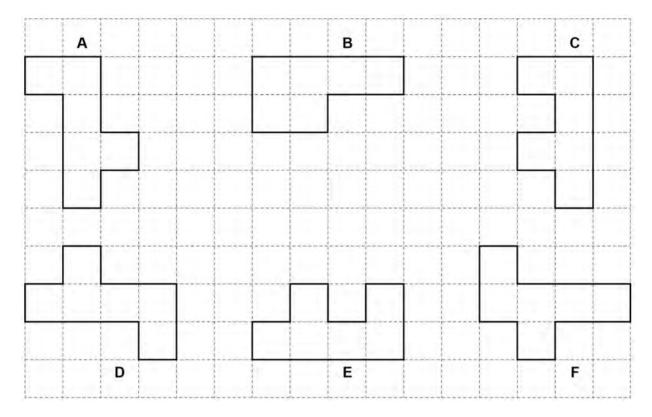
The order of rotational symmetry of shape  ${\bf Y}$  is





8 Here are some shapes.

Each shape has an area of six square centimetres.



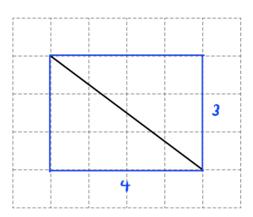
8 (a) Which two shapes fit together to make a rectangle?

[1 mark

Answer C and E

**9** (a) A diagonal of a rectangle is drawn on a centimetre grid.

The sides of the rectangle are on the grid lines.



Work out the area of the rectangle.

[2 marks]

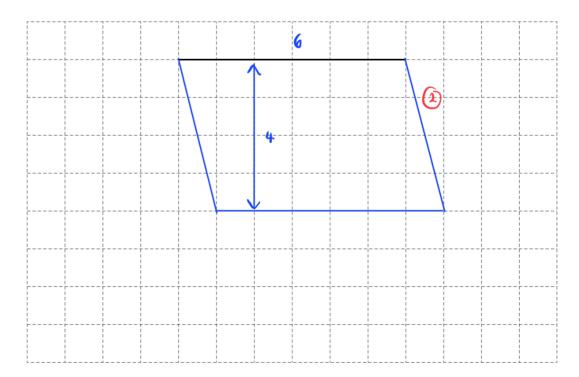
4 x 3 = 1	<b>2</b> (1)	•
(1)		
Answer	(2	cm <sup>2</sup>

**9 (b)** One side of a parallelogram is drawn on this centimetre grid.

The parallelogram does **not** have any right angles.

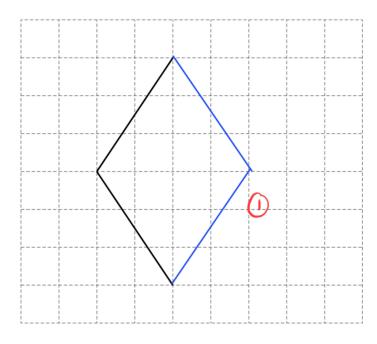
Complete the parallelogram so that it has area  $24\ \text{cm}^2$ 

[2 marks]



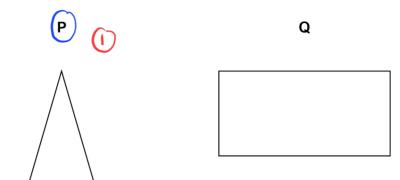
**9** (c) Two sides of a rhombus are drawn on this grid.

Complete the rhombus.



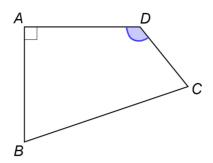
10 Circle the letter of the shape that has **exactly one** line of symmetry.

[1 mark]



RS

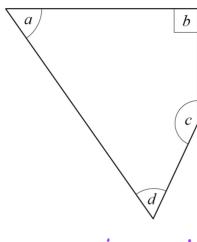
11 In the quadrilateral, which angle is **obtuse**? 90 < x < 180



Circle your answer.

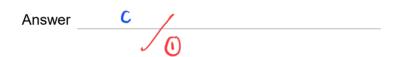


12 Here is a quadrilateral.



12 (a) Write down the letter of the obtuse angle.

[1 mark]



**12 (b)** Write down the letter of an acute angle.

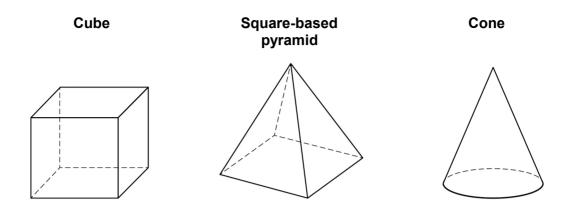
[1 mark]



12 (c) How many lines of symmetry does the shape have?



13 Here are three solids.



13 (a) How many faces does the cube have?

[1 mark]



13 (b) How many edges does the square-based pyramid have?

[1 mark]



**13 (c)** How many **vertices** does the cone have?

