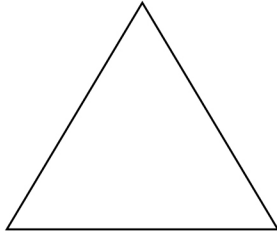
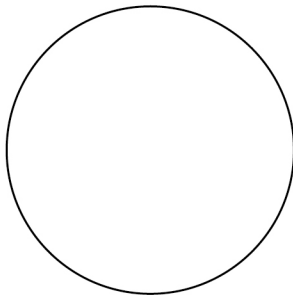
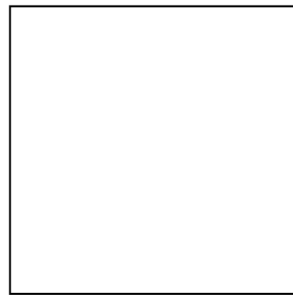


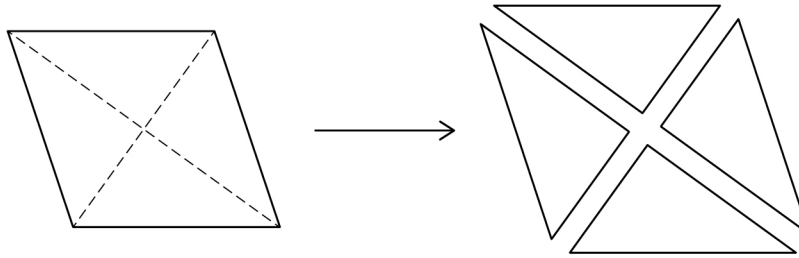
**1**

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

**[1 mark]****P****Q****R****S**

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

- 3** Which shape **can** have sides with lengths that are all different?  
Circle your answer.

**[1 mark]**

trapezium

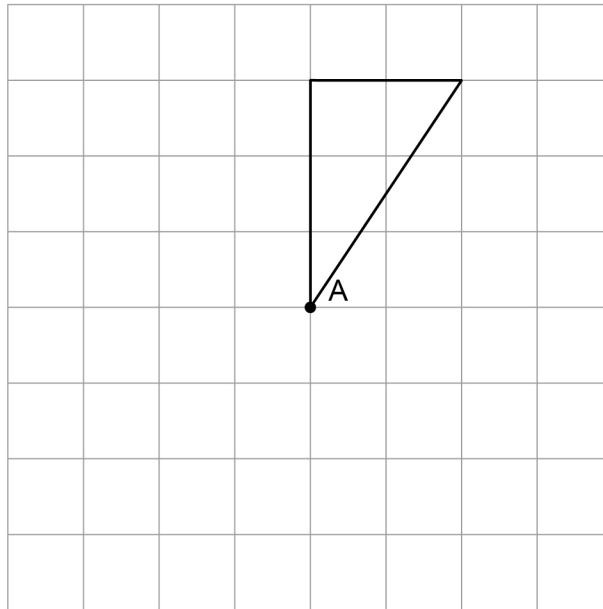
kite

parallelogram

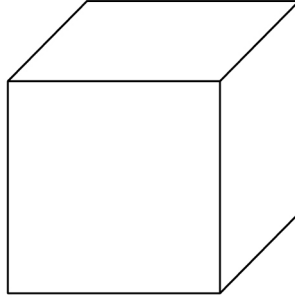
rhombus

- 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.

[1 mark]

☐

It has 12 edges.

☐

It has 12 faces.

☐

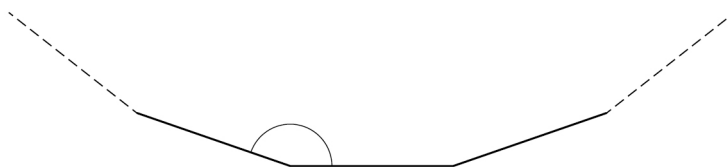
It has 12 planes.

☐

It has 12 vertices.

**6**

Part of a regular polygon with 15 sides is shown.

Not drawn  
accuratelyWork out the size of an **interior** angle.**[2 marks]**

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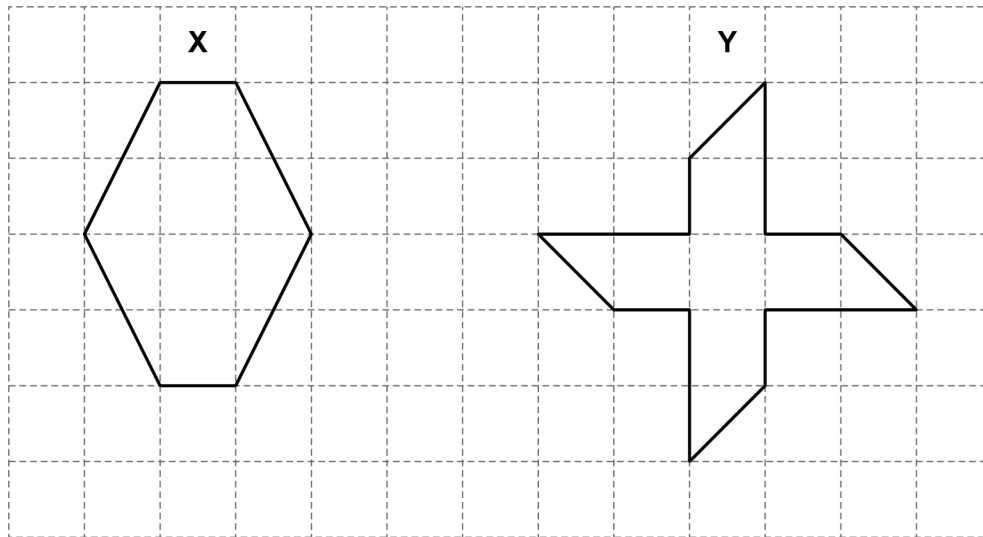
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Answer \_\_\_\_\_ degrees

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



- 7 (a) Circle the name of shape X.

[1 mark]

pentagon

hexagon

octagon

decagon

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

[1 mark]

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- 7 (c) Complete these statements.

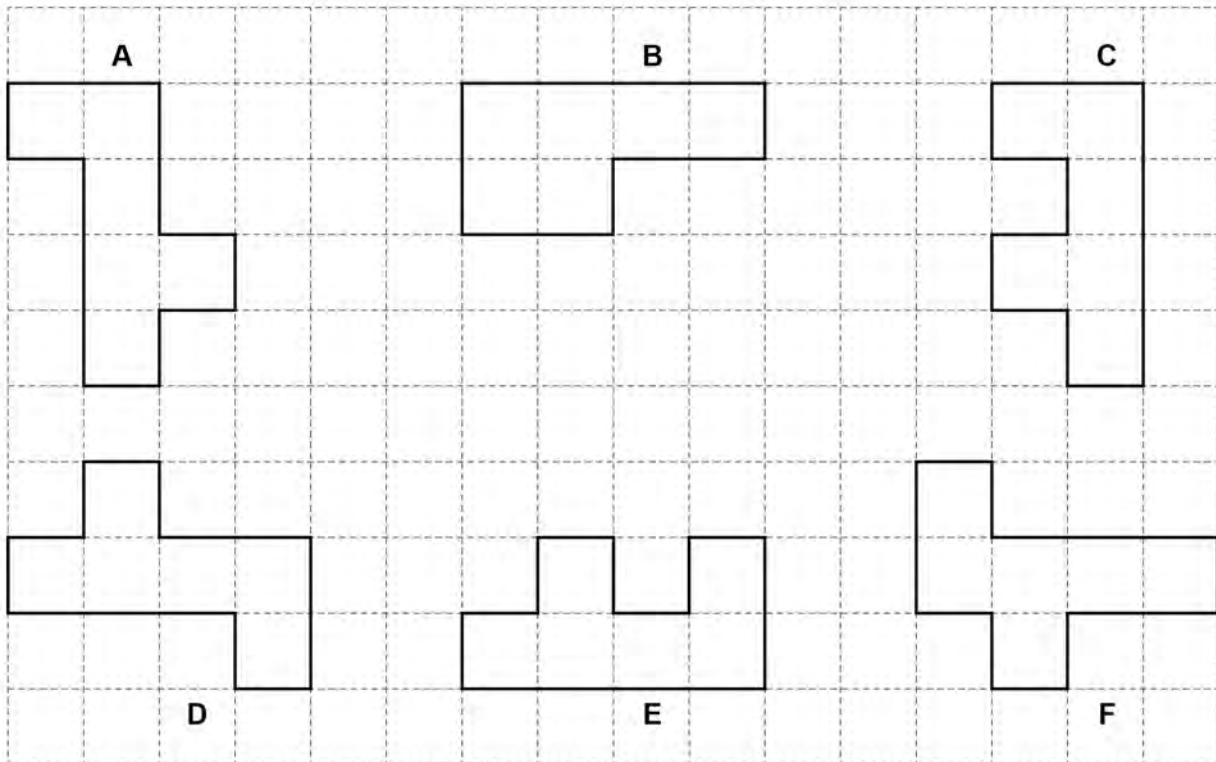
[2 marks]

The number of lines of symmetry of shape X is \_\_\_\_\_

The order of rotational symmetry of shape Y is \_\_\_\_\_

8 Here are some shapes.

Each shape has an area of six square centimetres.



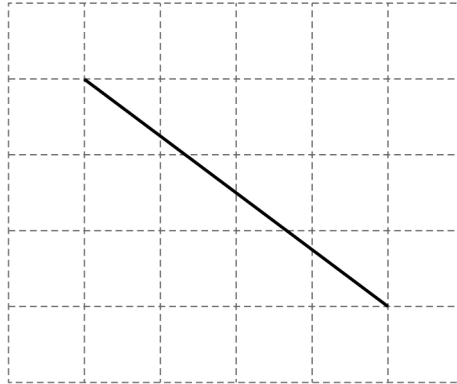
8 (a) Which **two** shapes fit together to make a rectangle?

[1 mark]

Answer \_\_\_\_\_ and \_\_\_\_\_



- 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]

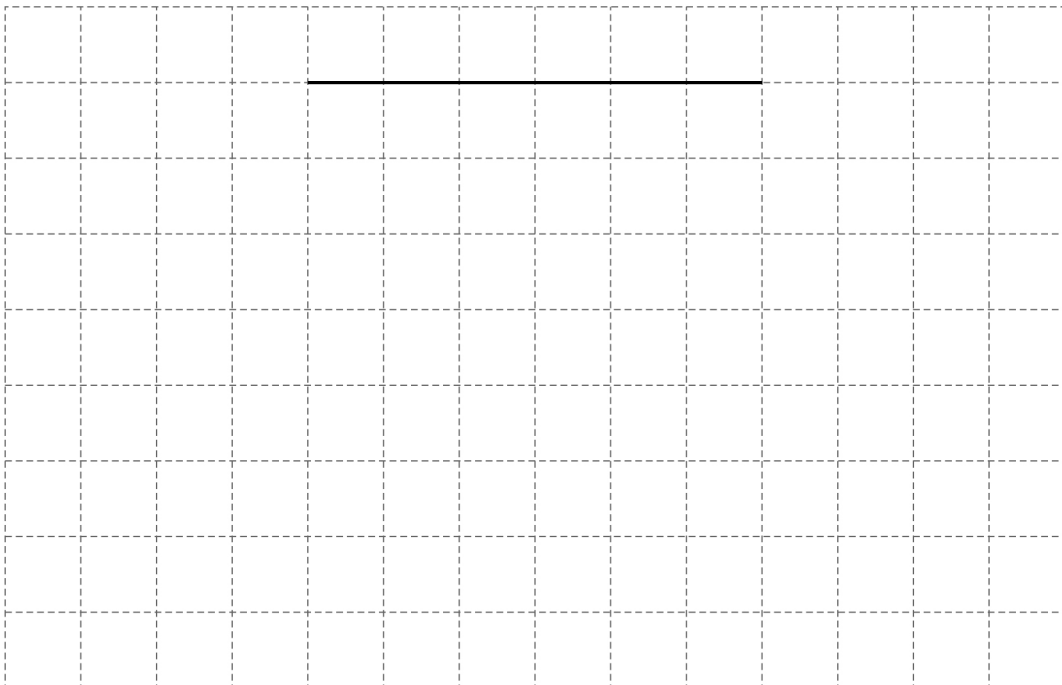
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Answer \_\_\_\_\_  $\text{cm}^2$

- 9 (b) One side of a parallelogram is drawn on this centimetre grid.  
The parallelogram does **not** have any right angles.

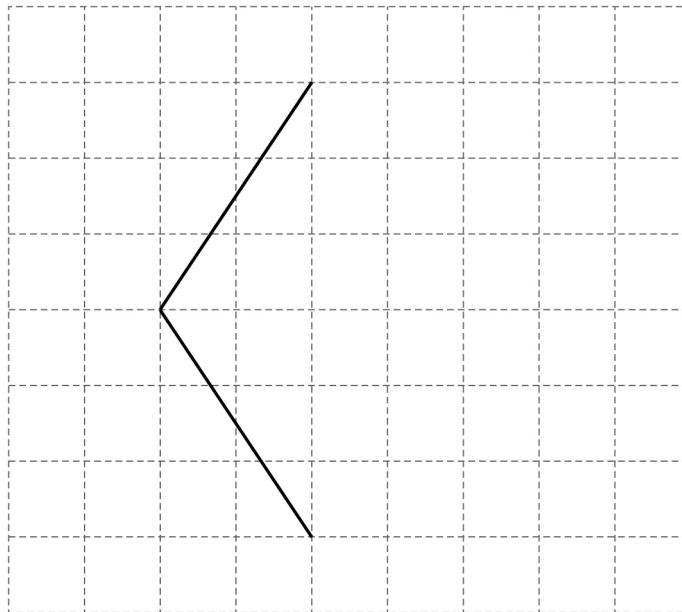
Complete the parallelogram so that it has area  $24 \text{ cm}^2$

[2 marks]



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

**[1 mark]**

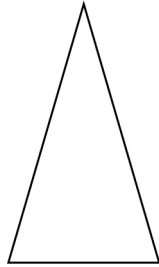


10

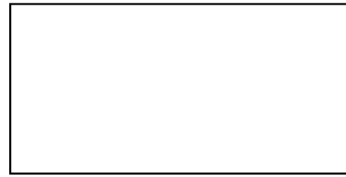
Circle the letter of the shape that has **exactly one** line of symmetry.

[1 mark]

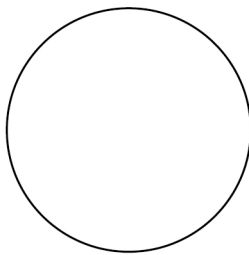
P



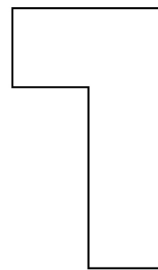
Q



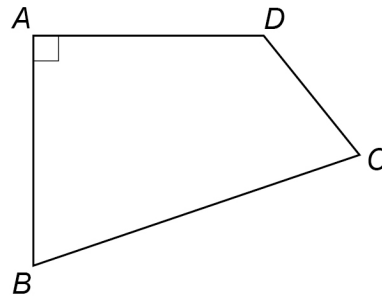
R



S



- 11 In the quadrilateral, which angle is **obtuse**?



Circle your answer.

[1 mark]

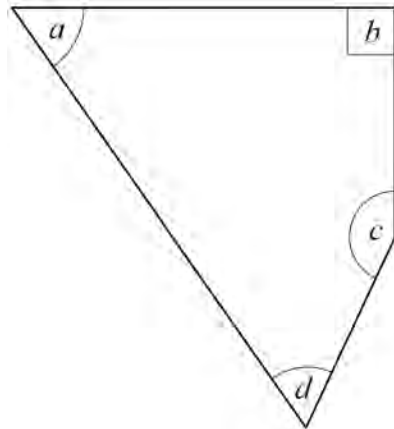
*ADC*

*BAD*

*CBA*

*DCB*

**12** Here is a quadrilateral.



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

**[1 mark]**

Answer \_\_\_\_\_

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

**[1 mark]**

Answer \_\_\_\_\_

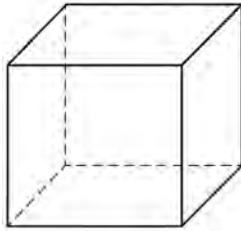
**12 (c)** How many lines of symmetry does the shape have?

**[1 mark]**

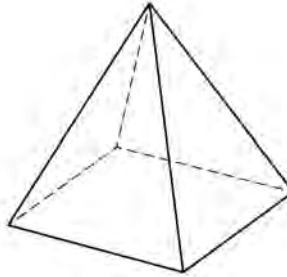
Answer \_\_\_\_\_

**13** Here are three solids.

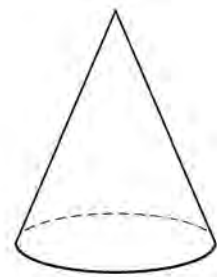
**Cube**



**Square-based  
pyramid**



**Cone**



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

**[1 mark]**

Answer \_\_\_\_\_

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

**[1 mark]**

Answer \_\_\_\_\_

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

**[1 mark]**

Answer \_\_\_\_\_