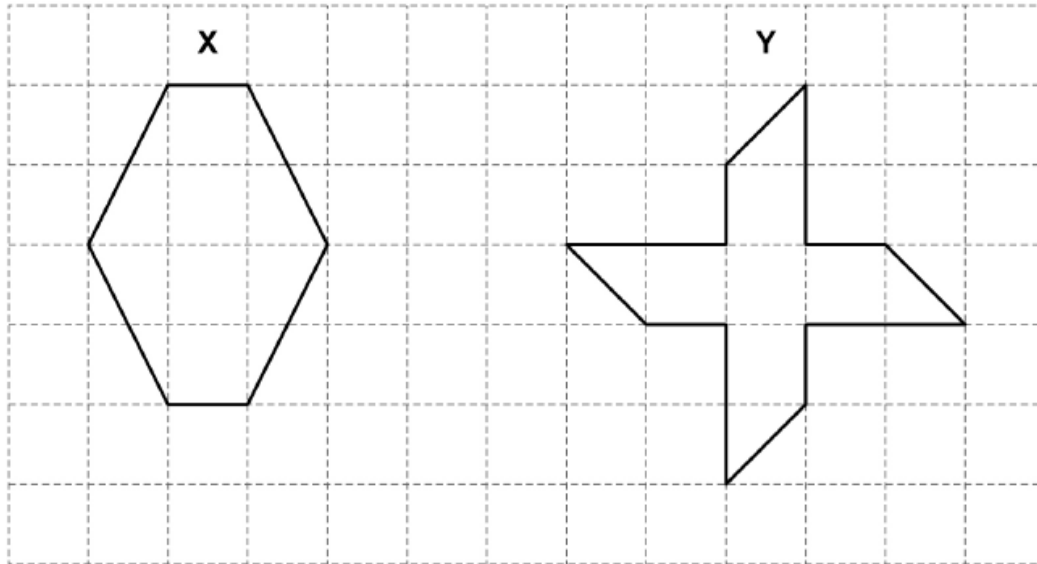


**AQA – Geometry and measures – GCSE 2022 Mathematics**

1. June/2022/Paper\_8300/3F/No.10

Shapes X and Y are shown on a centimetre grid.



(a) Circle the name of shape X.

[1 mark]

- pentagon      hexagon      octagon      decagon

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

[1 mark]

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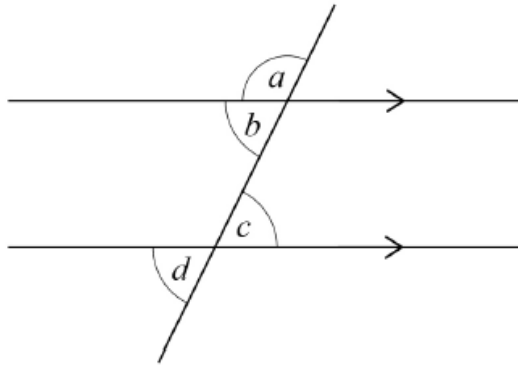
(c) Complete these statements.

[2 marks]

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

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

## 2. June/2022/Paper\_8300/3F/No.18



Circle the pair of alternate angles.

[1 mark]

*a* and *b*

*b* and *c*

*c* and *d*

*a* and *d*

## 3. June/2022/Paper\_8300/3H/No.11

A quadrilateral has angles  $70^\circ$ ,  $110^\circ$ ,  $130^\circ$  and  $50^\circ$

Circle the possible type of quadrilateral.

[1 mark]

kite

parallelogram

rhombus

trapezium

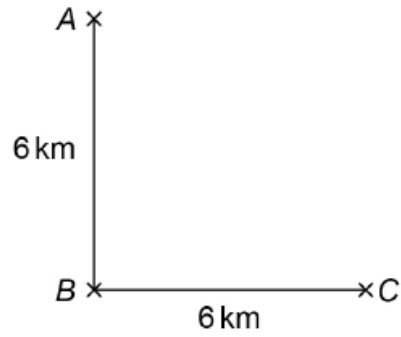
4. June/2022/Paper\_8300/3H/No.12

(a) B is

6 km due South of A

and

6 km due West of C.



Not drawn accurately

Work out the bearing of A from C.

[2 marks]

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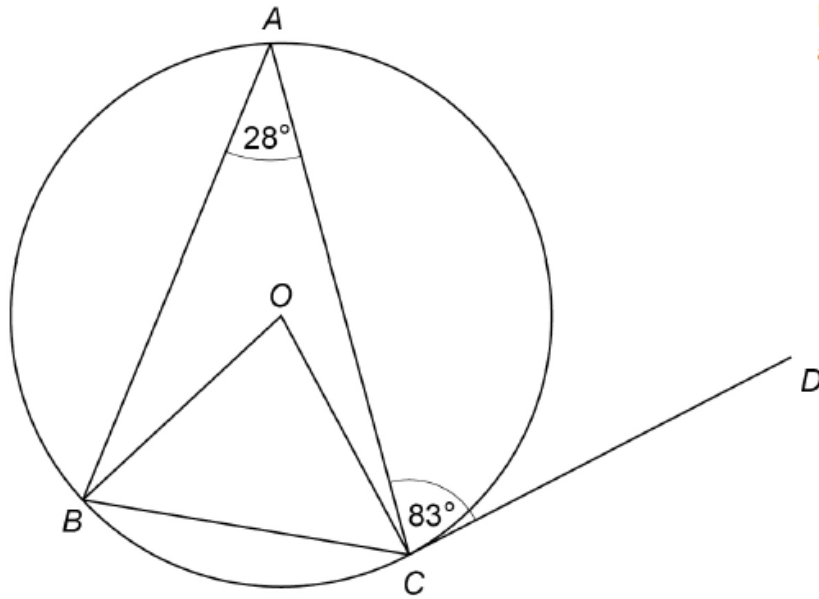
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Answer \_\_\_\_\_ °

5. June/2022/Paper\_8300/3H/No.18

$A$ ,  $B$  and  $C$  are points on a circle, centre  $O$ .

$DC$  is a tangent to the circle.



Not drawn accurately

Show that  $\text{angle } ABO : \text{angle } ACO = 3 : 1$

[5 marks]

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