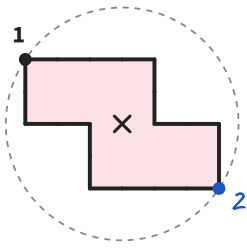


Rotational Symmetry

ANSWERS

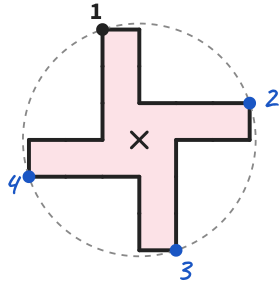
1 One full turn. Count the times it fits.

Find the order of rotational symmetry.



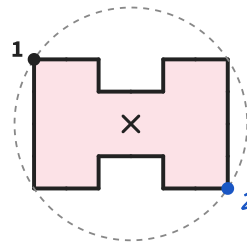
Order of rotational symmetry 2

2 Find the order of rotational symmetry.



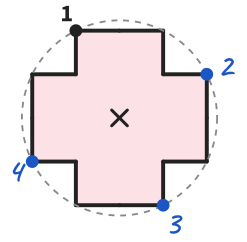
Order of rotational symmetry 4

3 Find the order of rotational symmetry.



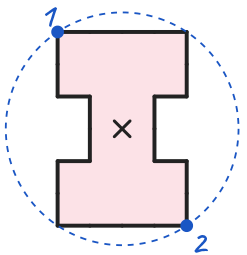
Order of rotational symmetry 2

4 Find the order of rotational symmetry.



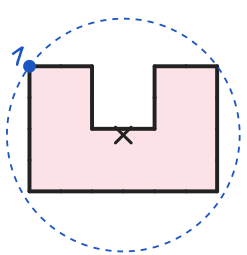
Order of rotational symmetry 4

5 Find the order of rotational symmetry.



Order of rotational symmetry 2

6 Find the order of rotational symmetry.



Order of rotational symmetry 1

7 A shape has rotational symmetry of order 4 and 4 lines of symmetry. Name the shape.

it fits 4 times in a full turn

Answer A square

8 Write a capital letter that has rotational symmetry of order 2 but no lines of symmetry.

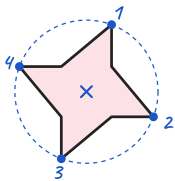
it looks the same upside down

Answer S, N or Z

Rotational Symmetry further practice

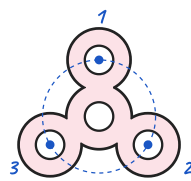
ANSWERS

9 Find the order of rotational symmetry.



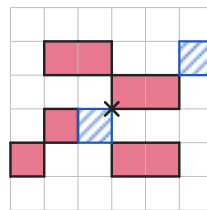
Order of rotational symmetry 4

10 A spinning toy has three identical arms. Find its order of rotational symmetry.



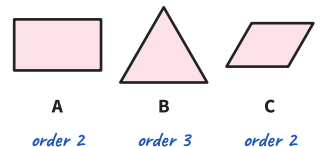
Order of rotational symmetry 3

11 Shade two more squares so that the pattern has rotational symmetry of order 2.



the shape fits 2 times in a full turn

12 Two of these shapes have the same order of rotational symmetry. Which two?

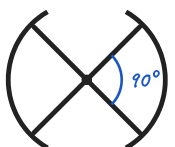


A order 2 B order 3 C order 2

order 2, 3 and 2

Answer A and C

13 A revolving door has 4 identical panels, shown from above. What is the smallest angle it can turn through and look exactly the same?



360 ÷ 4

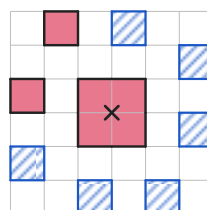
Answer 90°

14 A regular polygon looks exactly the same after every turn of 45°. How many sides does it have?

360 ÷ 45 = 8

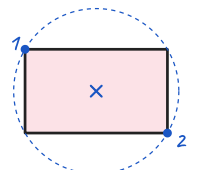
Answer 8 sides

15 A quilt square is started. Shade 6 more squares so that it has rotational symmetry of order 4.



the shape fits 4 times in a full turn

16 Max says a rectangle has rotational symmetry of order 4, because it has 4 corners. Is Max right? Explain.



after a quarter turn it does not fit

Answer No, order 2