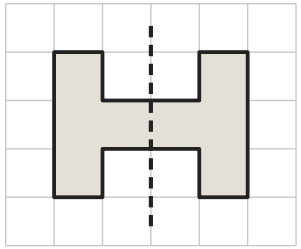
# Line symmetry and rotational symmetry

**1**

Draw all the lines of symmetry.



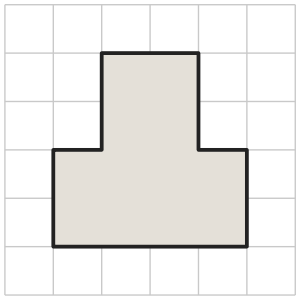
**down the middle:** match ✓

**across the middle:**

**Number of lines of symmetry** _____

**2**

Draw all the lines of symmetry.



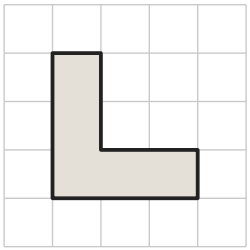
**down the middle:**

**across the middle:**

**Number of lines of symmetry** _____

**3**

Draw all the lines of symmetry.
Check the diagonals too.

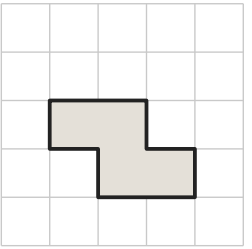


**diagonals:**

**Number of lines of symmetry** _____

**4**

Draw all the lines of symmetry.

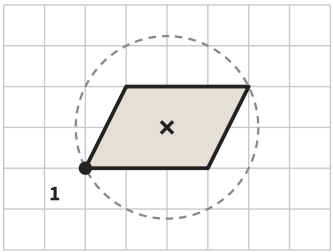


**every fold:**

**Number of lines of symmetry** _____

**5**

Find the order of rotational symmetry.



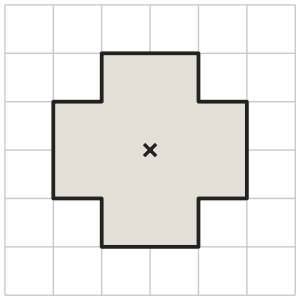

**half a turn:** it fits ✓

**places in a full turn:**

**Order of rotational symmetry** _____

**6**

Find the order of rotational symmetry.

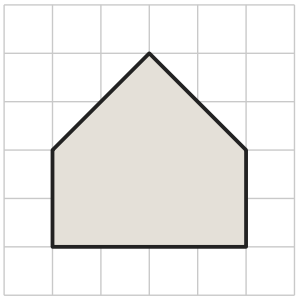


**places in a full turn:**

**Order of rotational symmetry** _____

**7**

Find the order of rotational symmetry.

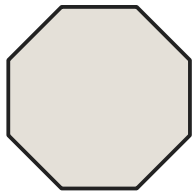


**it only fits:**

**Order of rotational symmetry** _____

**8**

This is a regular octagon. Write down its number of lines of symmetry and its order of rotational symmetry.



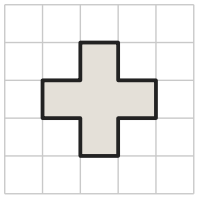
**lines of symmetry:**

**order:**

# Line symmetry and rotational symmetry *further practice*

**9**

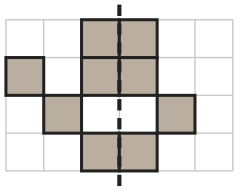
Draw all the lines of symmetry of this shape.



Answer _____

**10**

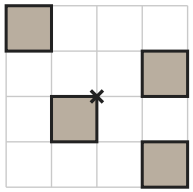
Shade one more square so that the dashed line is a line of symmetry.



Answer _____

**11**

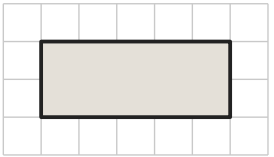
Shade two more squares so that the pattern has rotational symmetry of order 2.



Answer _____

**12**

Nadia says this rectangle has 4 lines of symmetry, because she counted the diagonals. Is she right? Explain.



Answer _____

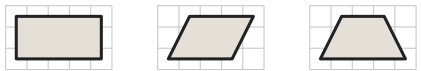
**13**

A regular polygon has 7 lines of symmetry. How many sides does it have? What is its order of rotational symmetry?

Answer _____

**14**

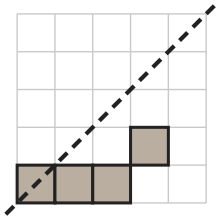
Which of these shapes has rotational symmetry of order 2 but no lines of symmetry?




Answer _____

**15**

Shade three more squares so that the dashed diagonal is a line of symmetry.



Answer _____

**16**

Jay says a shape with no lines of symmetry cannot have rotational symmetry.
Is he right? Explain.

Answer _____