

Basic Symmetry

Name: _____ Class: _____ Date: _____

Mark _____ / 12 _____ %

1) Complete the table to show the line and rotational symmetry of quadrilaterals.

Quadrilaterals	Number of Lines of Symmetry	Order of Rotational Symmetry
Square		
Rectangle		
Parallelogram		
Rhombus		
Kite		

[1]

2) Complete the table to show the line and rotational symmetry of regular polygons.

Regular Polygons	Number of Lines of Symmetry	Order of Rotational Symmetry
Nonagon		
Octagon		
Triangle		
Heptagon		
Square		
Hexagon		
Decagon		
Pentagon		

[1]

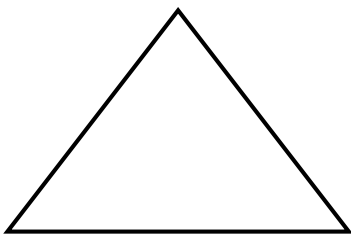
3) Complete the table to show the line and rotational symmetry of triangles.

Type of Triangle	Number of Lines of Symmetry	Order of Rotational Symmetry
Scalene		
Isosceles		
Equilateral		

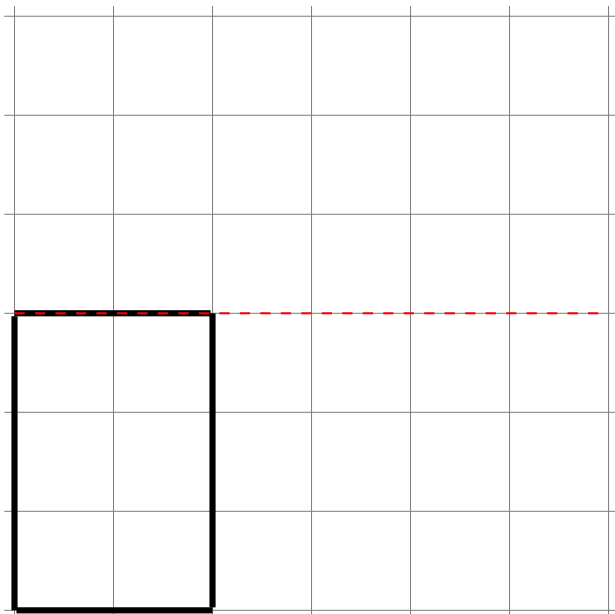
4) Find the number of lines of symmetry for the isosceles triangle below.

[1]

[1]

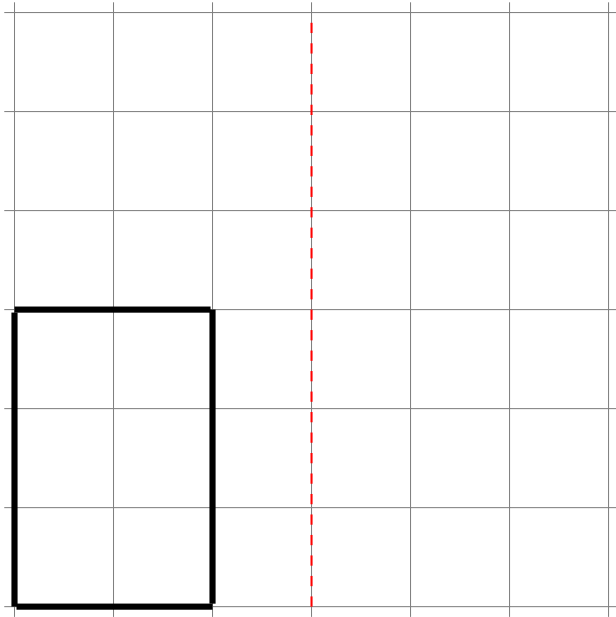


5) Reflect the shape in the dotted line.



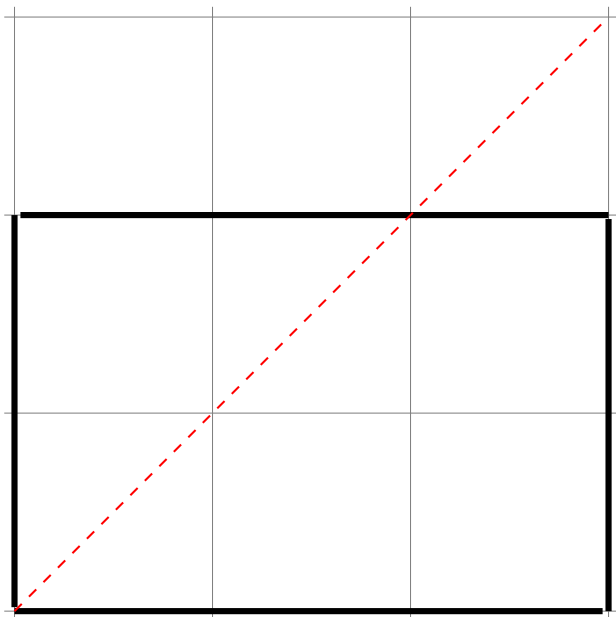
[1]

6) Reflect the shape in the dotted line.



[1]

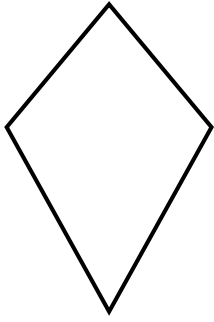
7) Reflect the shape in the dotted line.



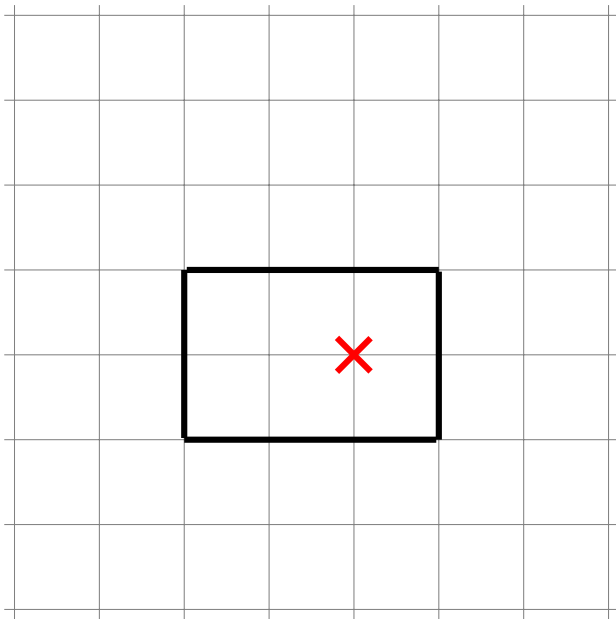
[1]

8) Give the order of rotational symmetry of the kite below.

[1]

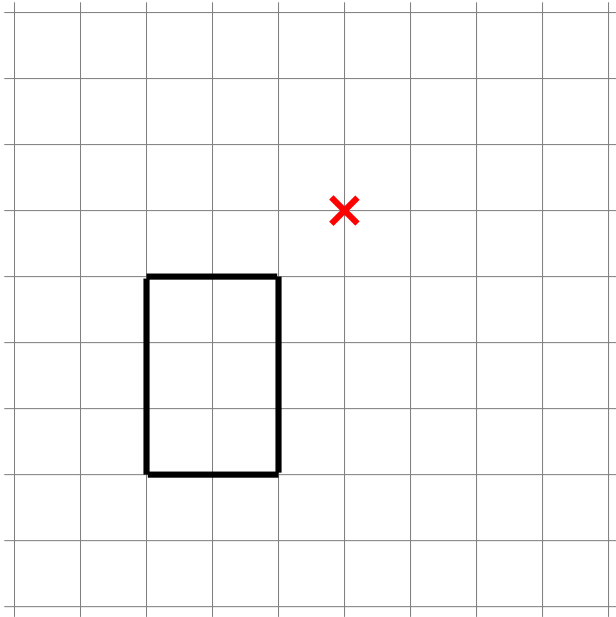


9) Rotate the shape 90° clockwise about the centre marked with a cross.



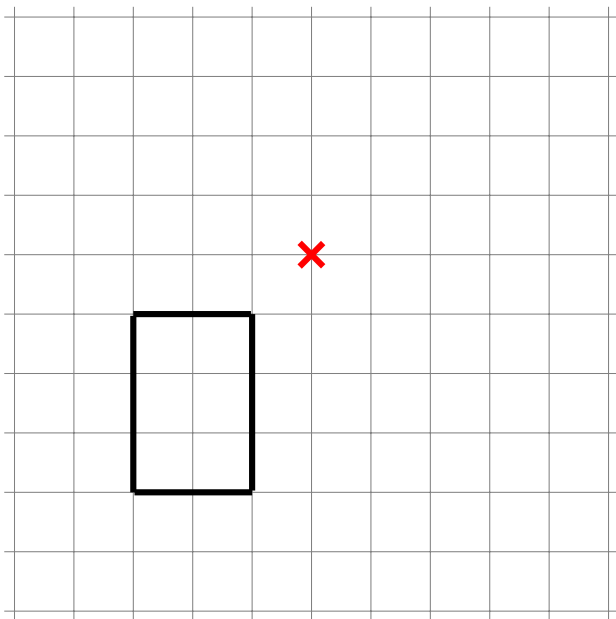
[1]

10) Rotate the shape 90° anti-clockwise about the centre marked with a cross.



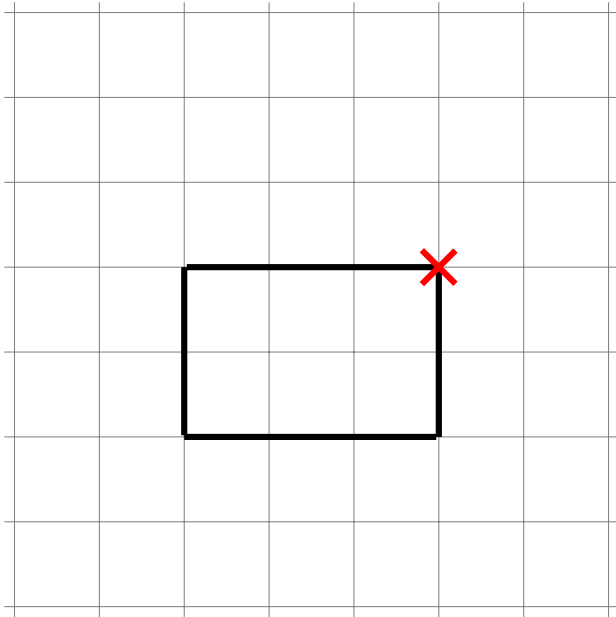
[1]

11) Rotate the shape 180° about the centre marked with a cross.



[1]

12) Rotate the shape 90° anti-clockwise about the centre marked with a cross.



[1]

Solutions for the assessment Basic Symmetry

1)

Square: 4, 4

Rectangle: 2, 2

Parallelogram: 0, 2

Rhombus: 2, 2

Kite: 1, 1

2)

Nonagon: 9,9

Octagon: 8,8

Triangle: 3,3

Heptagon: 7,7

Square: 4,4

Hexagon: 6,6

Decagon: 10,10

Pentagon: 5,5

3)

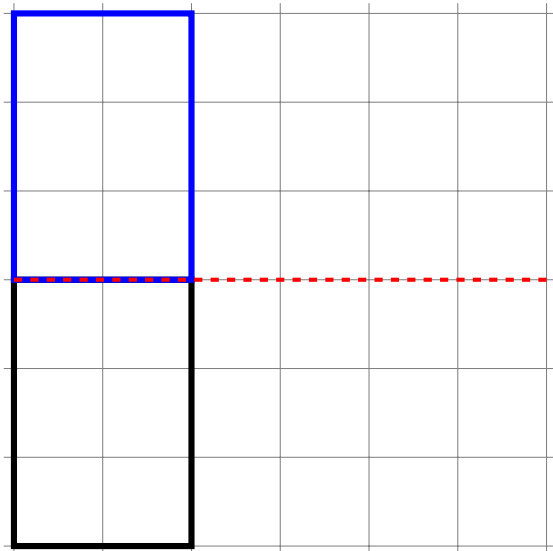
Scalene Triangle: 0, 1

Isosceles Triangle: 1, 1

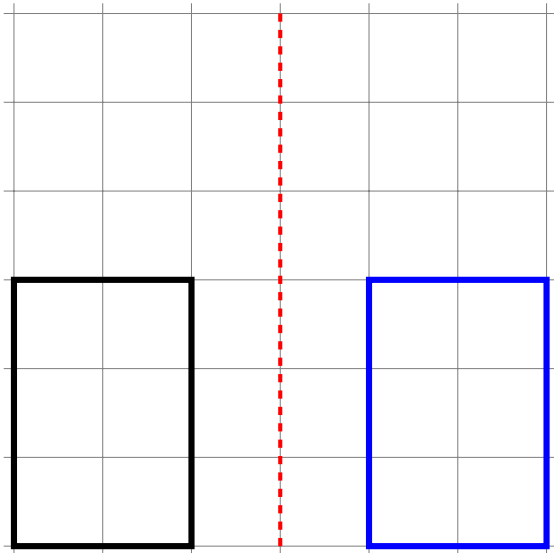
Equilateral Triangle: 3, 3

4) Number of lines of symmetry = 1

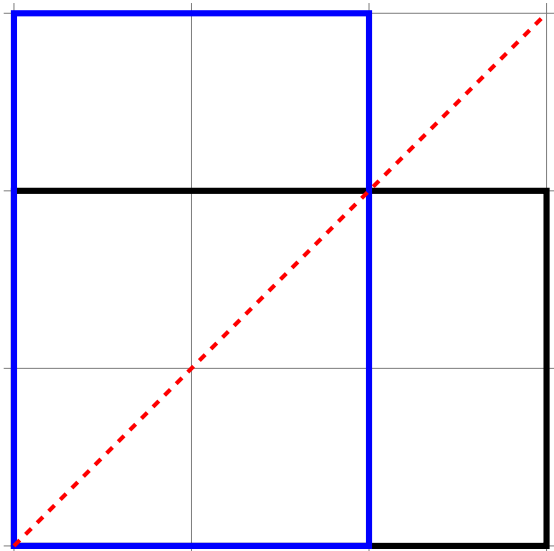
5)



6)

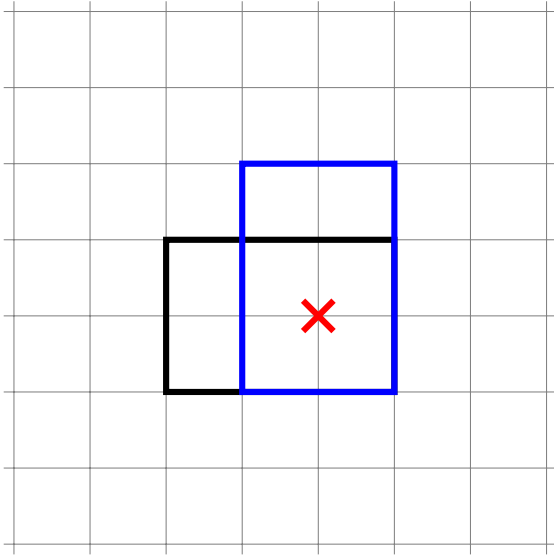


7)

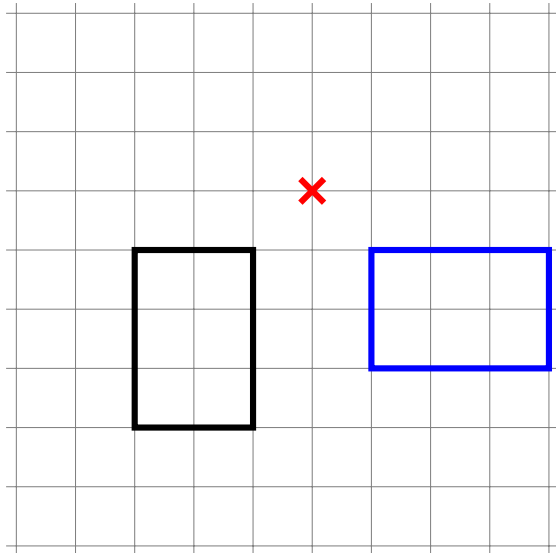


8) Order of rotational symmetry = 1

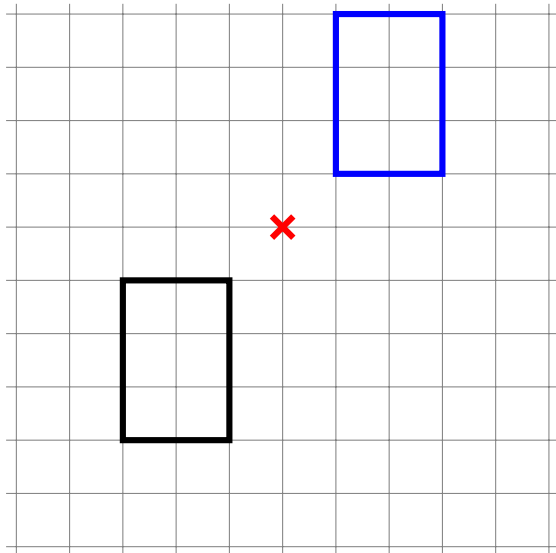
9)



10)



11)



12)

