

MATH – [MARCH] – [WEEK 26]

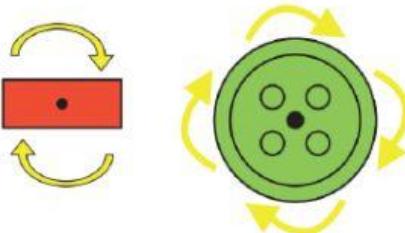
ACHIEVEMENT		COMMENT		
<input type="checkbox"/>	Excellent	<input type="checkbox"/>	Fair	Knowledge
<input type="checkbox"/>	Very good	<input type="checkbox"/>	Need improvement	Skills
<input type="checkbox"/>	Good			Attitude

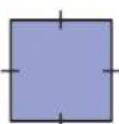
LESSON: Polygons and rotational

REMEMBER

A shape has **rotational symmetry** if it can be rotated about a point to another position and still look the same.

The **order of rotational symmetry** is the number of times the shape looks the same in one full turn. A rectangle has rotational symmetry of order 2. This button has rotational symmetry of order 4.


EXERCISES:

1	<p>Copy and complete these properties of a square. Show each one on a diagram. Diagrams a, b and e have been done for you.</p> <p>a A square is a _____.</p>  <p>b It has _____ equal sides.</p>  <p>c It has _____ pairs of parallel sides.</p> <p>d The sides meet at _____°.</p> <p>e The diagonals _____ each other at 90°.</p>  <p>f It has _____ lines of symmetry.</p>
2	<p>Copy and complete these properties of a parallelogram. Show each one on a diagram. Diagrams a, d and f have been done for you.</p> <p>a A parallelogram is a _____.</p>  <p>b It has _____ pairs of equal sides.</p> <p>c It has _____ pairs of parallel sides.</p> <p>d It has _____ pairs of equal angles.</p>  <p>e The diagonals _____ each other.</p> <p>f It has _____ lines of symmetry.</p> 

3

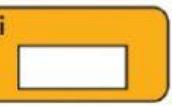
Sort these cards into their correct groups.

Each group must have one blue, one green and one yellow card.

A Rectangle

a Order of rotational symmetry is 3

B Scalene triangle



C Equilateral triangle



b Order of rotational symmetry is 2

c Order of rotational symmetry is 1



4

Write down the missing numbers from each of these statements.

a A square has _____ equal sides.

b A parallelogram has _____ pairs of parallel sides.

c The diagonals of a kite meet at _____°.

d An isosceles trapezium has _____ pair of equal sides.

e A rectangle has _____ lines of symmetry.

f A rhombus has _____ pairs of equal angles.

5

Write down the order of rotational symmetry of each of these road signs.



b



c



d



6

Use tracing paper to work out the order of rotational symmetry of these shapes.

