

MATH – [MARCH] – [WEEK 26]

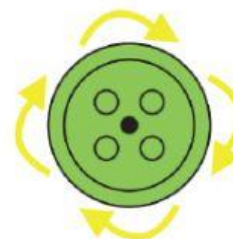
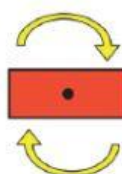
ACHIEVEMENT		COMMENT	
<input type="checkbox"/> Excellent	<input type="checkbox"/> Fair	Knowledge	
<input type="checkbox"/> Very good	<input type="checkbox"/> Need improvement	Skills	
<input type="checkbox"/> Good		Attitude	

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.

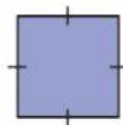

EXERCISES:
1

Copy and complete these properties of a square. Show each one on a diagram. Diagrams a, b and e have been done for you.

a A square is a _____.



b It has _____ equal sides.



c It has _____ pairs of parallel sides.

d The sides meet at _____°.

e The diagonals _____ each other at 90°.



f It has _____ lines of symmetry.

2

Copy and complete these properties of a parallelogram. Show each one on a diagram. Diagrams a, d and f have been done for you.

a A parallelogram is a _____.



b It has _____ pairs of equal sides.

c It has _____ pairs of parallel sides.

d It has _____ pairs of equal angles.



e The diagonals _____ each other.

f It has _____ lines of symmetry.



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


b Order of rotational symmetry is 2

C Equilateral triangle

i 

c Order of rotational symmetry is 1

ii 

iii 

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.

a 

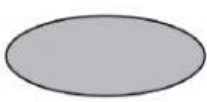
b 

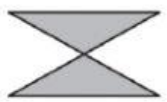
c 


d 


6


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

a 

b 

c 

d 

e 

f 