5.1 – Introduction to geometry

Student name: _____Answers_____ Score: _____

1. A quadrilateral has

- two pairs of parallel sides
- all sides the same length
- no right angles.

Write down the mathematical name of this quadrilateral.

.....Rhombus..... [1]

2. **(a)** Write down the mathematical name of the quadrilateral that has rotational symmetry of order 2 but no lines of symmetry.

Parallelogram..... [1]

(b) Write down the mathematical name of the quadrilateral that has exactly one line of symmetry.

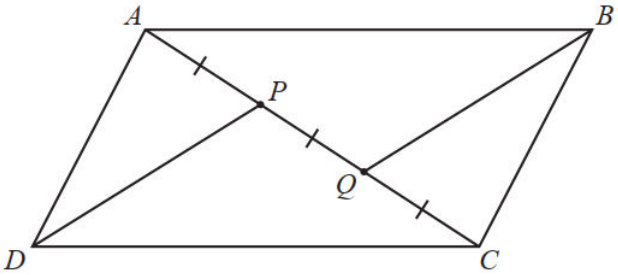
Kite or isosceles trapezium..... [1]

3. A quadrilateral has all sides equal and exactly two lines of symmetry.

Write down the mathematical name of this quadrilateral.

....Rhombus..... [1]

4.



NOT TO SCALE

ABCD is a parallelogram.
AP = *PQ* = *QC*.

Show that triangles *BQC* and *DPA* are congruent.

Statement	Reason
BC = DA	Opposite side of a parallelogram
∠BCQ = ∠DAP	Alternate angles
AP = QC	SAS
	[3]