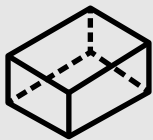


Geometry: properties of 2D and 3D shapes



Helpful Hint

Here are some of the shapes that you might need.



Cuboid



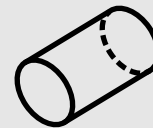
Cone



Square-based pyramid



Triangular-based pyramid



Cylinder



Sphere



Right-angled triangle
a triangle with one right angle



Equilateral triangle
a triangle with three equal sides



Isosceles triangle
a triangle with two equal sides



Rhombus
a **parallelogram** with four equal sides. Opposite angles are also equal



Parallelogram
a four-sided shape in which opposite sides are parallel and equal. Opposite angles are also equal



Trapezium
a four-sided shape in which two sides are parallel



Pentagon
a shape with five sides



Hexagon
a shape with six sides



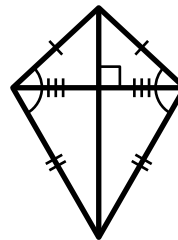
Heptagon
a shape with seven sides



Rectangle
a four-sided shape with four right angles. Opposite sides are parallel and equal; **adjacent** sides are unequal



Quadrilateral
a shape with four sides



Kite
a four-sided shape with diagonals crossing at right angles

Ⓐ Answer these questions. You do not need to show your workings out.

1 What is the name of a shape with three sides, two of equal length?

 [1]

2 What is the name of a shape with four sides and four right angles?
The sides are not all the same length.

 [1]

3 What is the name of a shape with seven sides?

 [1]

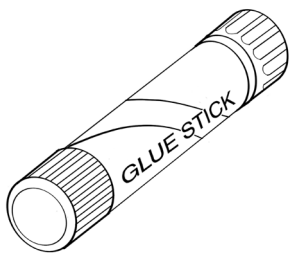
4 What is the name of a shape with only one surface?

 [1]

5 How many **edges** are on a cuboid?

 [1]

6

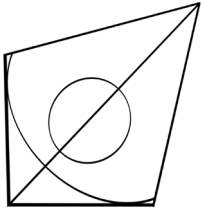


What is the special name of this **prism**?

 [1]

B Answer these questions. You do not need to show your workings out.

1



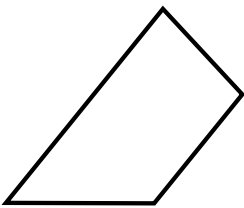
What is the name of this shape?

_____ [1]

2 What is the name of a rectangle with all the sides of equal length?

_____ [1]

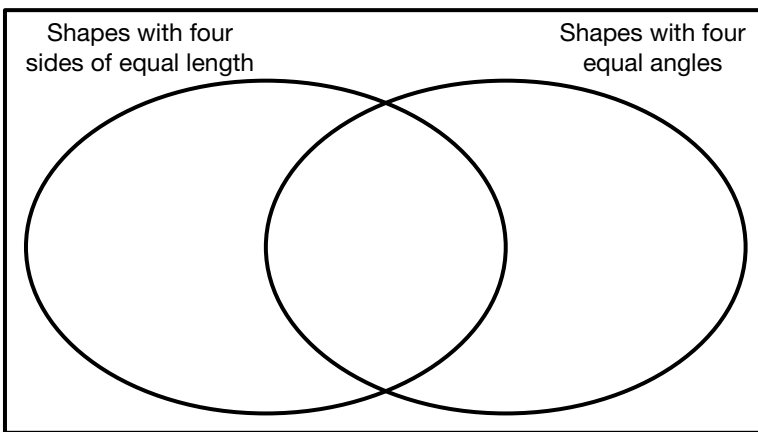
3



What is the name of this shape?

_____ [1]

4



Place the following letters in the correct place on the **Venn diagram** above, according to their properties.

_____ [4]

L: square

N: rhombus

M: rectangle

P: parallelogram

5 Which three four-sided shapes have diagonals which cross at right angles?

_____ [3]

© Answer these questions. You do not need to show your workings out.

1 What is the name of a shape with four triangular **faces** and one square face?

_____ [1]

2 What is the name of a trapezium with two pairs of parallel sides?

_____ [1]

3 What is the name of a solid with only one edge?

_____ [1]

4 What is the name of a solid with six edges?

_____ [1]

5 Which three shapes are being described?

Has four equal straight sides with four right angles.

Has four sides all of equal length, with two pairs of matching angles.

Has four sides with adjacent sides being equal and only one line of symmetry.

_____ [3]

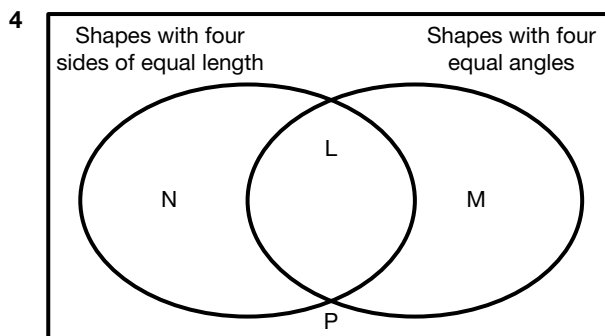
Unit 1

A

- 1 isosceles triangle
- 2 rectangle
- 3 heptagon
- 4 sphere
- 5 12
- 6 cylinder

B

- 1 kite
- 2 square
- 3 trapezium



- 5 kite, rhombus, square

C

- 1 square-based pyramid
- 2 parallelogram
- 3 cone or hemisphere
- 4 triangular-based pyramid or tetrahedron
- 5 square, rhombus and kite