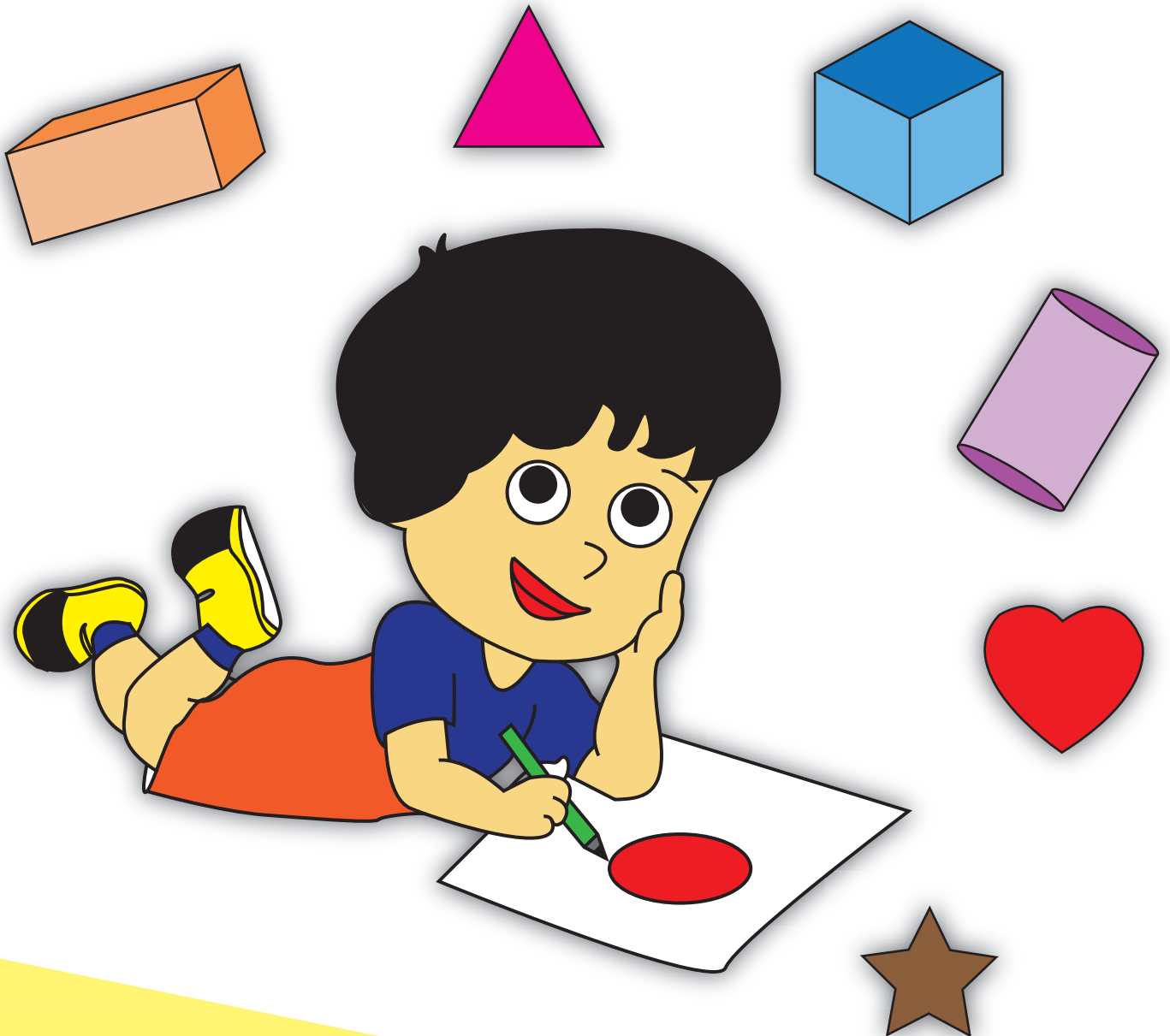




GRADE 1

GEOMETRY

WORKBOOK 1



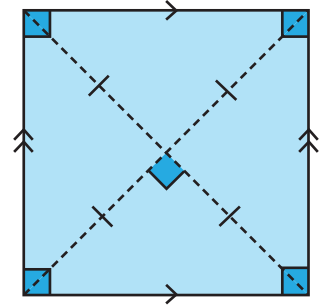


Properties of 2D Shapes

Date _____

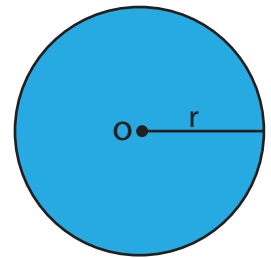
Square

- Four-sided regular quadrilateral.
- Four vertices, four angles.
- All sides are equal.
- Opposite sides are parallel.
- Diagonals bisect each other at right angles (90°) and are equal.



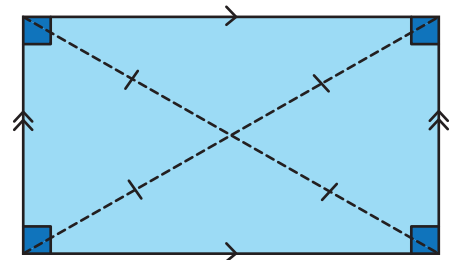
Circle

- No sides and no angles.
- Any line drawn from the centre of the circle is called its radius.
- The diameter of a circle bisects the circle into two equal halves.



Rectangle

- Four-sided quadrilateral.
- Four vertices, four angles - all angles are 90° .
- Opposite sides are parallel and are of equal length.
- The diagonals are equal in length.



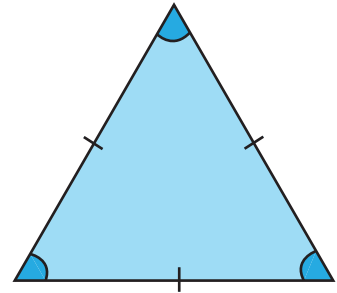


Properties of 2D Shapes

Date _____

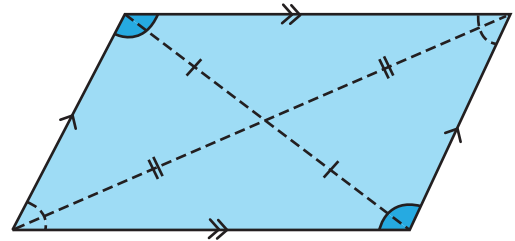
Equilateral Triangle

- All three sides are equal.
- Three vertices, three angles.
- All three internal angles are 60° each.



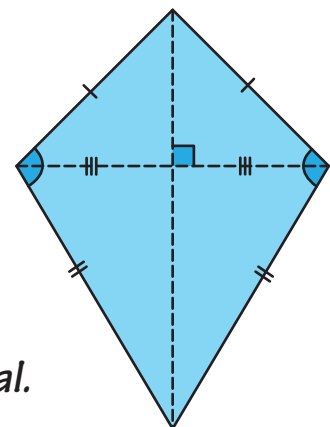
Parallelogram

- Four sided quadrilateral.
- Four vertices, four angles.
- Opposite sides are equal in length and are parallel.
- The diagonals bisect each other and the diagonally opposite angles are equal.



Kite

- Four-sided quadrilateral.
- Four vertices, four angles.
- Two pairs of its sides are of equal length.
- One pair of diagonally opposite angles are equal.
- Only one diagonal is bisected by the other and the diagonals cross at 90° .



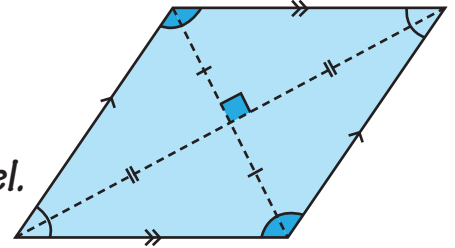


Properties of 2D Shapes

Date _____

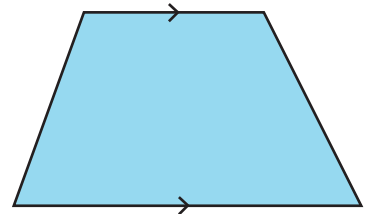
Rhombus

- Four-sided quadrilateral.
- Four vertices, four angles.
- All sides are equal and opposite sides are parallel.
- Diagonally opposite angles are equal and the diagonals bisect at 90° .



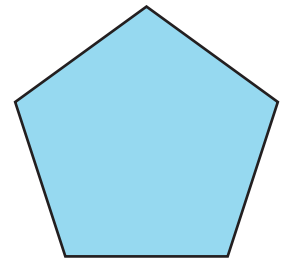
Trapezoid

- Four-sided quadrilateral.
- One pair of opposite sides is parallel.
- Four vertices, four angles.



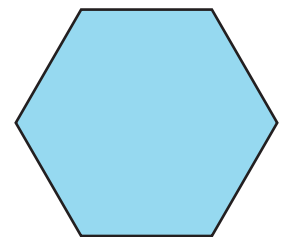
Pentagon

- Five-sided polygon.
- Five vertices, five angles.
- In a regular pentagon all sides are equal and each angle is 108° .



Hexagon

- Six-sided polygon.
- Six vertices, six angles.
- In a regular hexagon all sides are equal and each angle is 120° .
- Opposite sides are parallel.



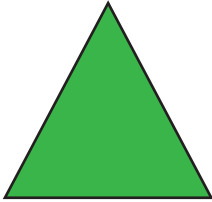


Matching Shapes

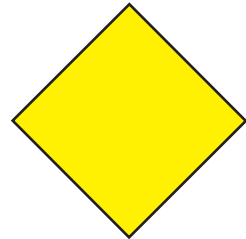
Date _____

Match the 2D Shapes.

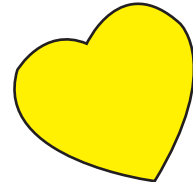
1)



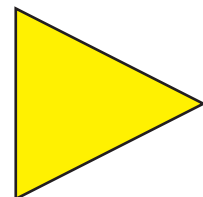
2)



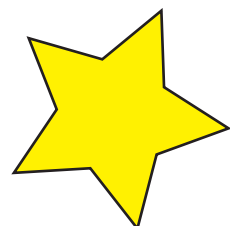
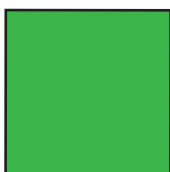
3)



4)



5)



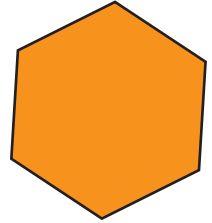
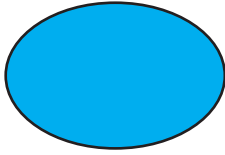


Matching Shapes

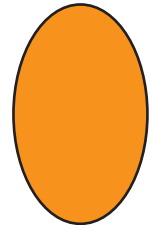
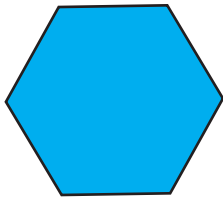
Date _____

Match the 2D Shapes.

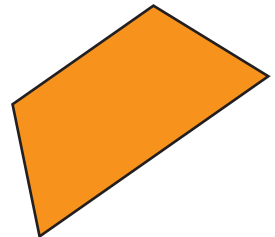
1)



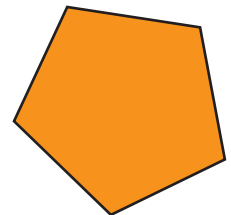
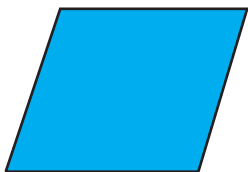
2)



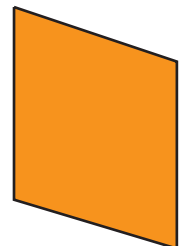
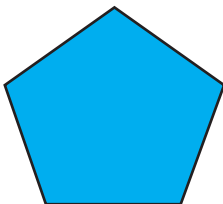
3)



4)



5)

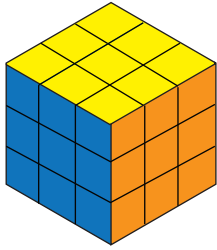


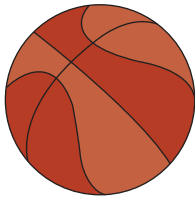


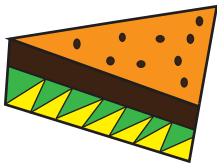
Shapes - Real life objects

Date _____

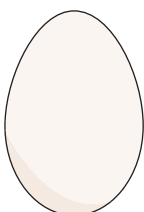
What 2D shapes do the 3D objects represent?













Shapes - Real life objects

Date _____

Draw appropriate real life objects for the given 2D shapes.

Square

Circle

Triangle

Rectangle

Oval



Drawing Shapes

Date _____

Draw the given 2D shapes and color them.

Square

Heart

Star

Circle

Rectangle

Triangle

Oval

Rhombus



Drawing Shapes

Date _____

Draw the given 2D shapes and color them.

Rectangle

Triangle

Parallelogram

Trapezoid

Pentagon

Circle

Rhombus

Hexagon

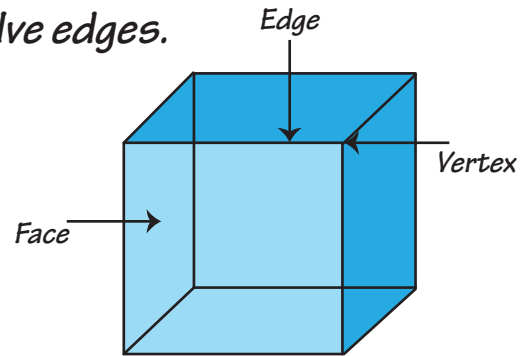


Properties of 3D Shapes

Date _____

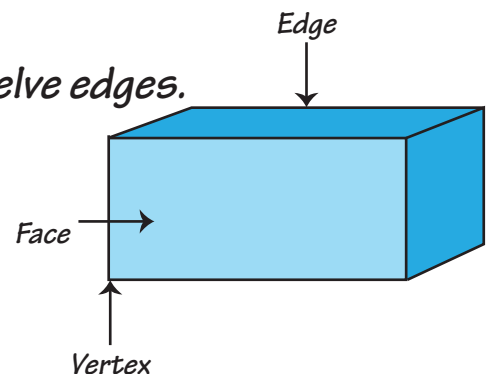
Cube

- A cube has six faces, eight vertices and twelve edges.
- All the faces of a cube are squares.
- All the faces meet four other faces.
- All the plane angles are right angles.
- Opposite edges on faces of a cube are parallel to each other.



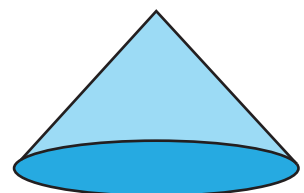
Cuboid

- A cuboid has six faces, eight vertices and twelve edges.
- All the faces meet four other faces.
- All the plane angles are right angles.
- All of its faces are rectangular and all angles are right angles.
- Pair of opposite faces are equal.



Cone

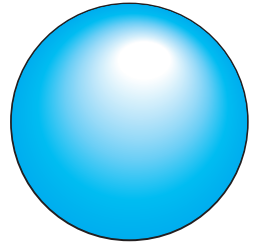
- A cone has one face, one edge and one vertex.
- It has circular base.
- It has only one curved surface.





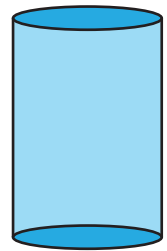
Sphere

- Sphere is perfectly symmetrical and rounded.
- Every point on the surface of the sphere is equidistant from its centre.
- The distance from the surface to the centre is called the radius of the sphere.



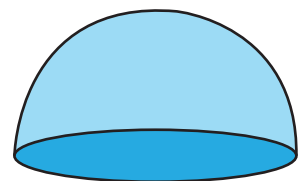
Cylinder

- A cylinder has two faces, two edges and no vertices.
- Two equal circles on its ends.
- It has only one curved surface.



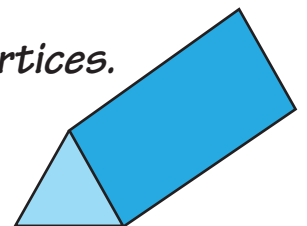
Hemisphere

- Exact half of a sphere is called a hemisphere.
- It has a circular base.
- No parallel and perpendicular faces or edges.



Triangular prism

- A triangular prism has nine edges, five faces and six vertices.
- The bases of the triangular prism are triangle.
- It has two triangular shapes and three rectangular shapes.





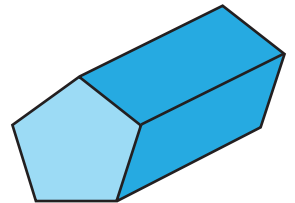
Rectangular prism

- A rectangular prism has six faces, eight vertices and twelve edges.
- All the faces meet at 90 degrees.
- Opposite faces are parallel.



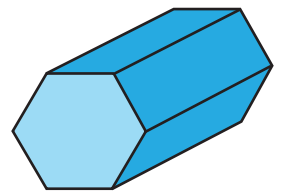
Pentagonal prism

- A pentagonal prism has seven faces, ten vertices and fifteen edges.
- It has two pentagonal shapes and five rectangular shapes.
- It is a semiregular polyhedron.



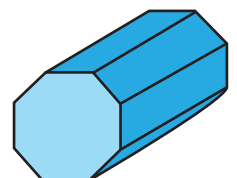
Hexagonal prism

- A hexagonal prism has eight faces, twelve vertices and eighteen edges.
- It is an octahedron.
- It has two hexagonal shapes and six rectangular shapes.



Octagonal prism

- A octagonal prism has ten faces, sixteen vertices and twenty four edges.
- It has eight sides.
- It has two octagonal shape and eight rectangular shape.

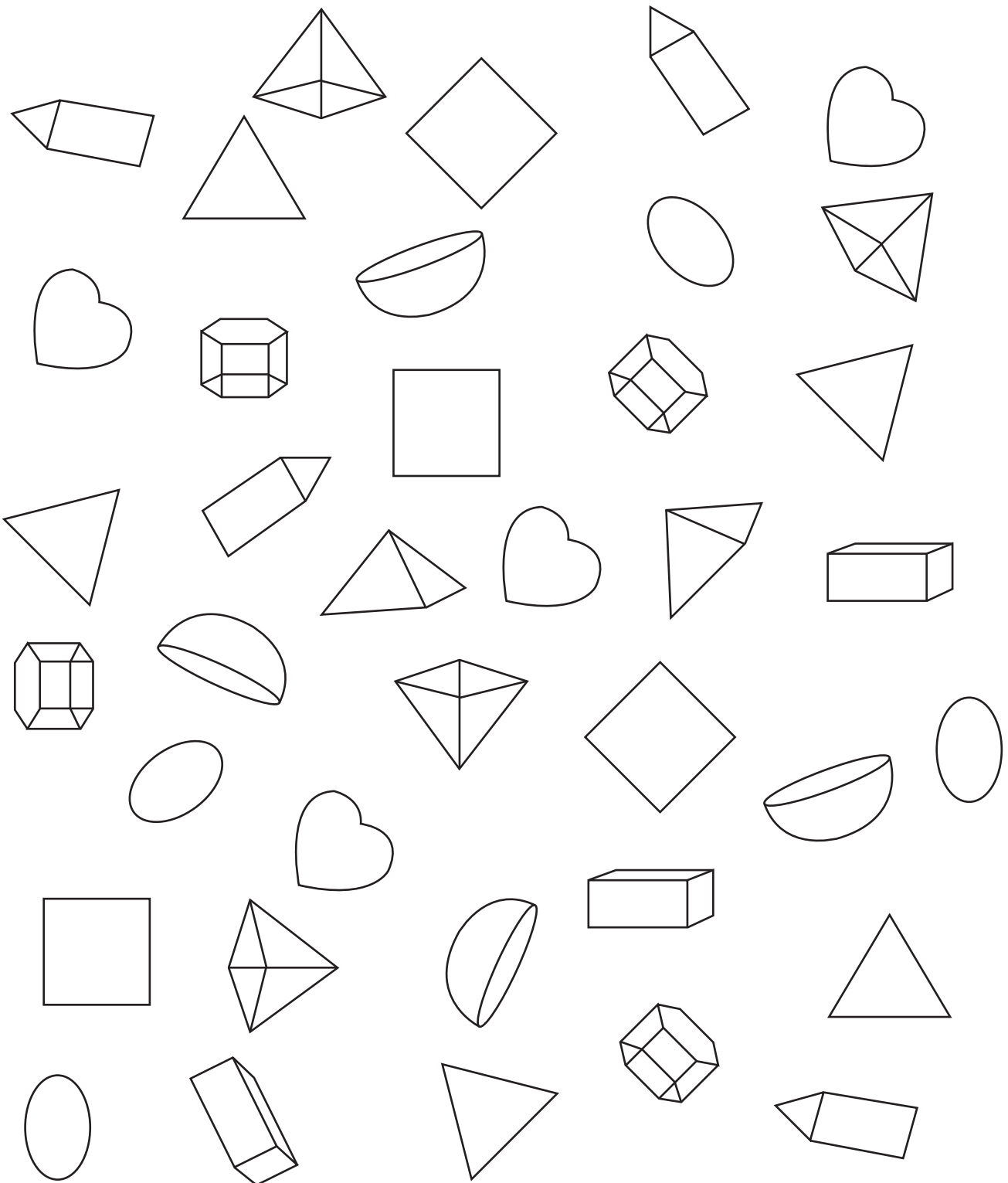




Coloring Shapes

Date _____

Color all 2D shapes green and all 3D shapes pink.

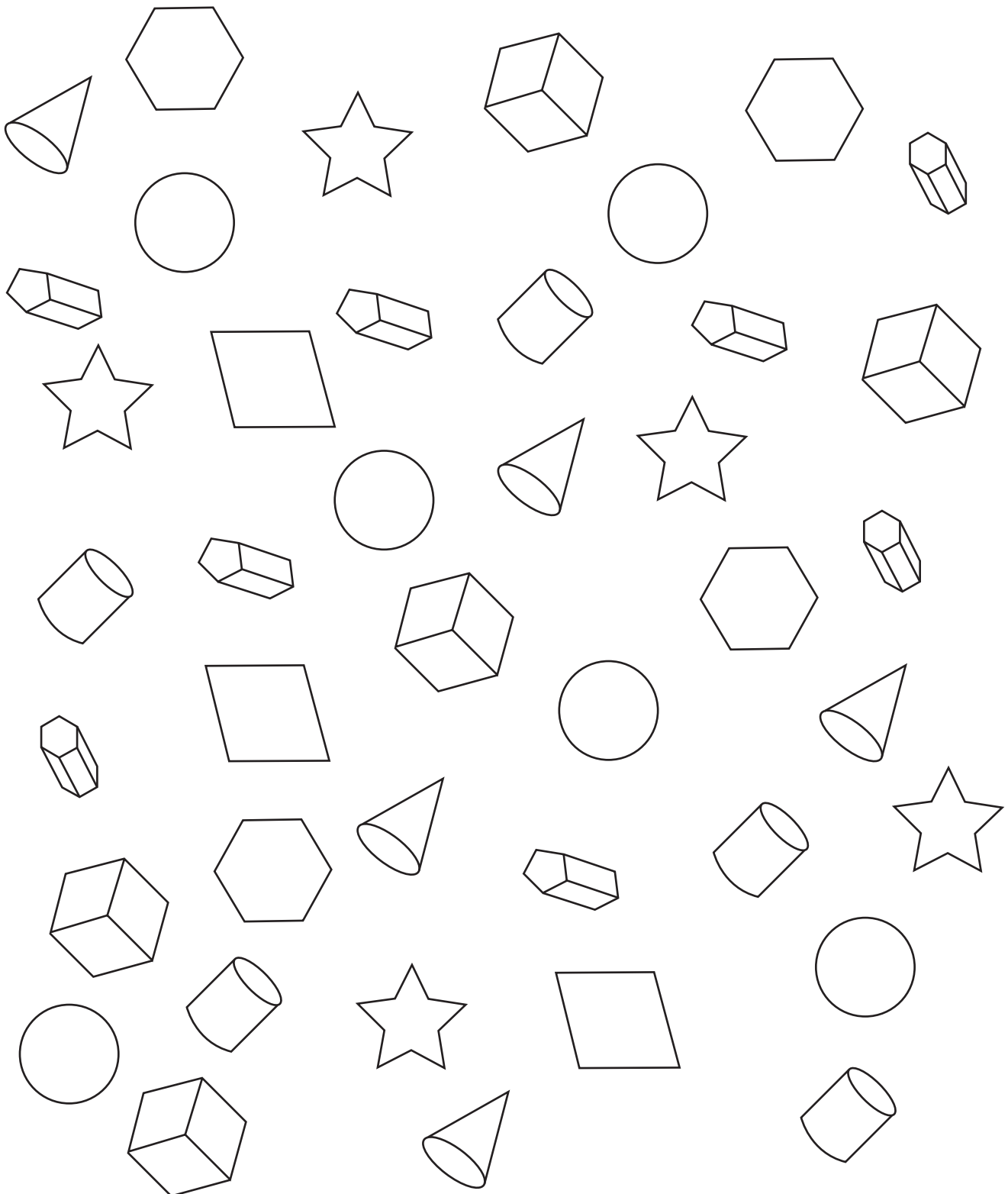




Coloring Shapes

Date _____

Color all 2D shapes yellow and all 3D shapes blue.



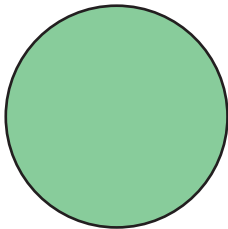


2D and 3D shapes

Date _____

Name each shape and find if they are 2D or 3D shape.

1)



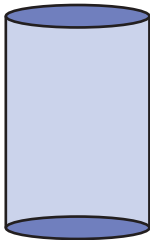
- ☐ 2D shape
☐ 3D shape

2)



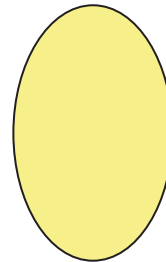
- ☐ 2D shape
☐ 3D shape

3)



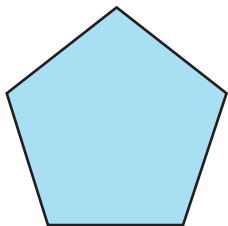
- ☐ 2D shape
☐ 3D shape

4)



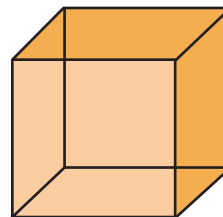
- ☐ 2D shape
☐ 3D shape

5)



- ☐ 2D shape
☐ 3D shape

6)



- ☐ 2D shape
☐ 3D shape

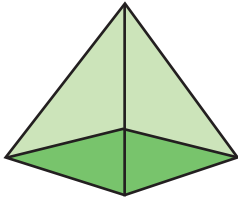


2D and 3D shapes

Date _____

Name each shape and find if they are 2D or 3D shape.

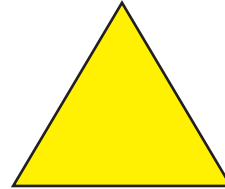
1)



☐ 2D shape

☐ 3D shape

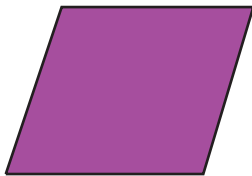
2)



☐ 2D shape

☐ 3D shape

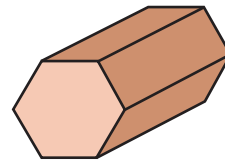
3)



☐ 2D shape

☐ 3D shape

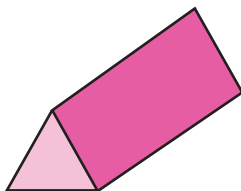
4)



☐ 2D shape

☐ 3D shape

5)



☐ 2D shape

☐ 3D shape

6)



☐ 2D shape

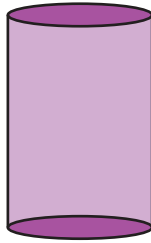
☐ 3D shape

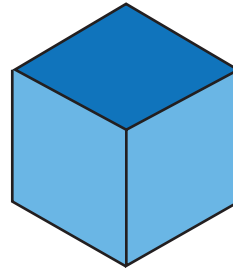


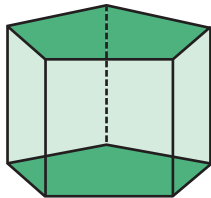
Identify Shapes

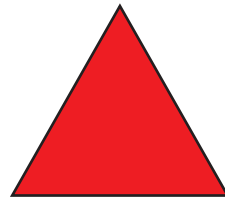
Date _____

Identify each shape and name them from the suggestions shown at the end of the page.

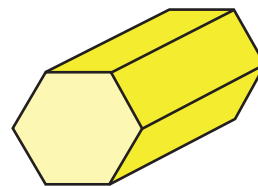












Sphere

Cuboid

Cone

Triangle

Pentagonal prism

Hexagonal prism

Cylinder

Oval

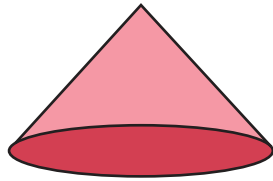
Cube

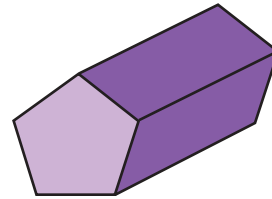


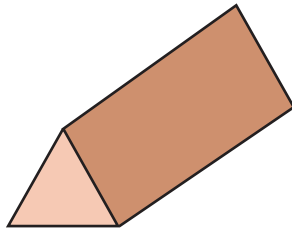
Identify Shapes

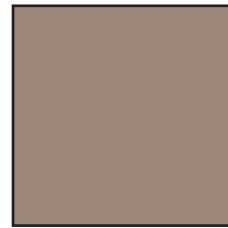
Date _____

Identify each shape and name them from the suggestions shown at the end of the page.

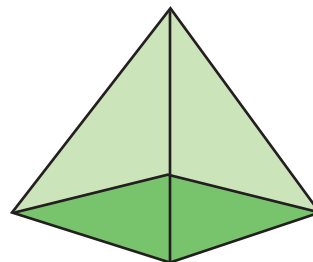












Cube

Square pyramid

Cylinder

Square

Cone

Pentagonal prism

Triangular prism

Pyramid

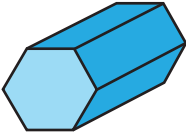
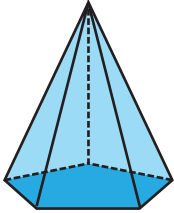
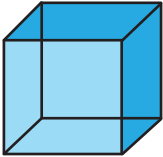
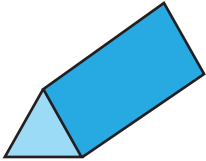
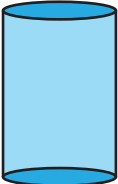
Parallelogram



Faces, Vertices & Edges

Date _____

Write all the possible answer.

Shapes	Names	Faces	Vertices	Edges
				
				
				
				
				



Date _____

Write all the possible answer.

Shapes	Names	Faces	Vertices	Edges
