

# DESCRIBING 3-D SHAPES

We can describe 3-D shapes in many ways. Simply, there are some that roll and some with points. There are some with a side that looks like a triangle, a rectangle, square or circle. You will also be expected to describe 3-d shapes as having faces, corners, edges, and points or vertices. Describing a 3-d shape makes it possible for us to identify the shapes of objects in our environment.

Some example of shapes in our environment can be seen below.

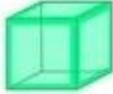
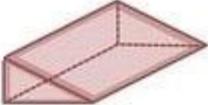
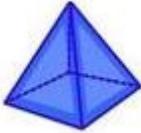


## ACTIVITY

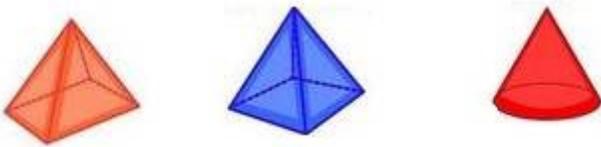
Build shapes using tightly rolled newspaper. Roll very tightly. Create skeletal structures and special shapes by tightly taping the corners.

Exercise:

1. Identify the shape and the number of each part.

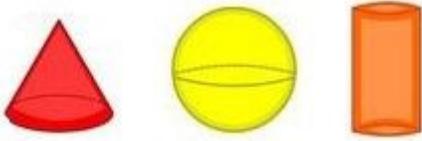
	Name: faces: edges: vertices:		Name: faces: edges: vertices:
	Name: faces: edges: vertices:		Name: faces: edges: vertices:
	Name: faces: edges: vertices:		Name: faces: edges: vertices:
	Name: faces: edges: vertices:		Name: faces: edges: vertices:

2. What do these shapes have in common?



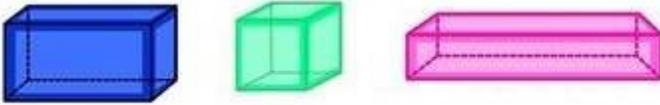
- They all have triangles
- They all can roll.
- They all have a point.
- They all have rectangular faces.

3. What do these shapes have in common?



- They all have a "point".
- They all have rectangular faces.
- They all will roll.

4. What do these shapes have in common? Select your answers.



- All of the faces are rectangles
- Each has 6 faces, 8 corners, and 12 edges
- They all have circular faces.
- They all have triangles.

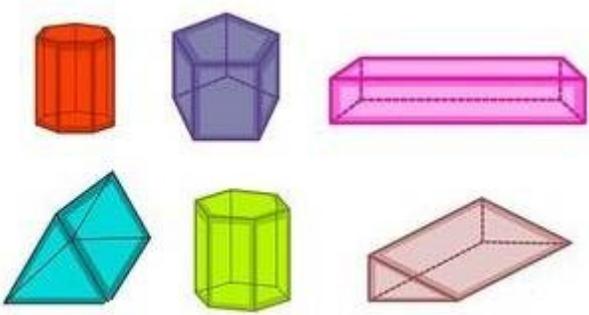
5. How many more faces does a cube have than a triangular prism?

Faces in a cube =

Faces in a triangular prism =

Answer:  more

6. The following are examples of prisms.



Answer true or false for the following questions.

Prisms have flat faces.

Prisms can have curved faces.

Prisms have square and rectangular faces.

A cube is a prism.

A cuboid is a prism.

7. Select True or False for the statement.

If it is a cylinder, then it is a circular prism.

True  False

If it is a cylinder, then it has at least one circular surface.

True  False

If it is a cone then it rotates a right angle triangle around.

True  False

If it is a pyramid, then it has four triangular sides.

True  False

If it is a prism, then it is a polyhedron with faces as parallelograms.

True  False