Worksheet

Geometry

Question 1: Write the shape of the following objects:

- •Tree trunk <u>cylinder</u>.
- •Sugar cube <u>cube</u>.
- •Carrot <u>cone.</u>
- Football <u>sphere</u>.
- Fire extinguisher <u>cylinder</u>.
- Shoe box <u>cuboid</u>.

Question 2: Make the digits 1 to 8 using these tangram pieces.

Question 3: How many squares are there in a 7 -piece tangram?

Question 4: Answer the following questions:

Answer :

- Party hat, Ice cream cone, Funnel, Traffic cone, Waffle cone.
- The lunch box, Bricks, Shoebox, Book, Carton boxes.

Question 5: Fill in the blanks:

•A cube has <u>12</u>edges.

The edge of a cube is the line segment joining the two vertices. There are a total of 12 edges in a cube.

•A cylinder has <u>2</u> edges.

A cylinder has 3 faces - 2 circle ones and a rectangle (if you take the top and bottom off a tin can then cut the cylinder part on the seam and flatten it out you would get a rectangle). It has 2 edges and no vertices (no corners).

•A cuboid has <u>6</u> faces.

Like a cube, a cuboid has 6 faces, 8 vertices, and 12 edges.

Question 6: Fill in the blanks:

•A cylinder has <u>2</u> flat faces.

A cylinder has 3 faces - 2 circle ones and a rectangle (if you take the top and bottom off a tin can then cut the cylinder part on the seam and flatten it out you would get a rectangle). It has 2 edges and no vertices (no corners).

- A cube has <u>6</u> faces and <u>8</u> vertices. A cube has 6 faces, 8 vertices, and 12 edges.
- A rectangle has <u>4</u> sides and <u>4</u> vertices. Rectangle is a flat figure.

Question 7: Tick (\checkmark) the curves which are polygons:



Question 8: Tick (\checkmark) the open figures and cross the closed figures:



Question 9: Tick (\checkmark) the polygons which are triangles:



Question 10: Fill in the blanks:

- •All the sides of a <u>square</u> are equal.
- A simple closed curve made of line segments only is called a **polygon**.

•A polygon made of three-line segments is called a **triangle**.

Question 11: Draw a rough sketch of a:

A polygon having 6 sides



Triangle



Quadrilateral which is not a square or a rectangle.



Question 12: Name the line segments in each of the following figures:



Question 13: In the figure, name:







C, D, E, F, G, H are the points marked on line AB

Question 15: State true or false:

- •A point has no length no breadth and no thickness. True
- •A ray has no definite length. True
- •A line has two end points. True

Question 16: In the figure, name the following:



Intersecting lines -AF AND CE RAYS -AB, DF, EG, DC

Question 17: Draw the following:

- Draw a vertical line segment CD. Mark a point L on its left side. Draw a line segment through L parallel to CD.
- Draw a line segment AB of suitable length. Mark a point P above it. Draw PQ perpendicular to AB using set squares.
- Draw a line segment EF. Mark a point G below it. Draw a line segment through G parallel to EF.

Question 18: Give three example from your environment for each of the following:

- Railway track lines, window lines, wicket sticks in cricket match.
- In real life, the following are examples of perpendicular lines: Football field. Railway track crossing. First aid kit.

Question 19: Find the radius of the circle whose diameter is: Diameter = radius/2

•12 cm = **12/2** = 6cm

• 4 cm = 4/2 = 2cm

Question 20: Find the diameter of the circle whose radius is: Radius = $2 \times diameter$

•8 cm = 8 x 2 = 16cm •3 cm = 3 x 2 = 6cm