

Worksheet

Geometry

Question 1: Write the shape of the following objects:

- Tree trunk cylinder.
- Sugar cube cube.
- Carrot cone.
- Football sphere.
- Fire extinguisher cylinder.
- Shoe box cuboid.

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.

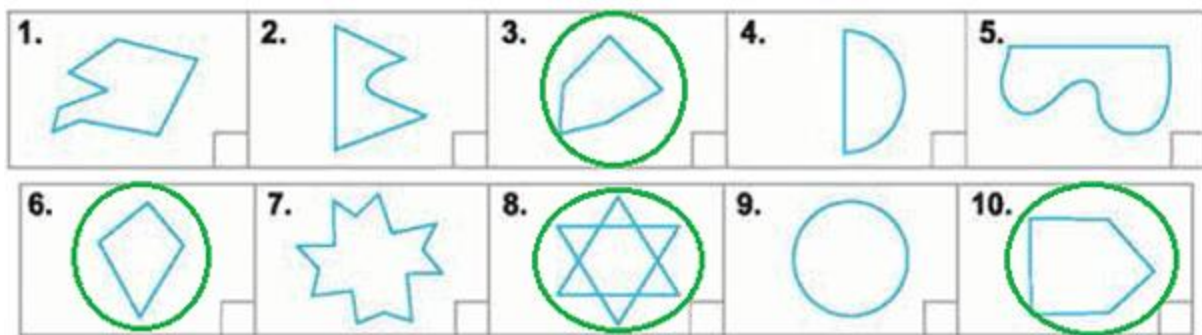
Question 5: Fill in the blanks:

- A cube has 12 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 2 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 6 faces.
Like a cube, a cuboid has 6 faces, 8 vertices, and 12 edges.

Question 6: Fill in the blanks:

- A cylinder has 2 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 6 faces and 8 vertices.
A cube has 6 faces, 8 vertices, and 12 edges.
- A rectangle has 4 sides and 4 vertices.
Rectangle is a flat figure.

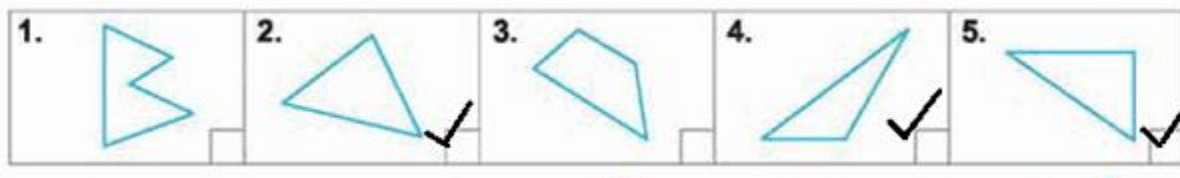
Question 7: Tick (✓) the curves which are polygons:



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



Question 9: Tick (✓) the polygons which are triangles:



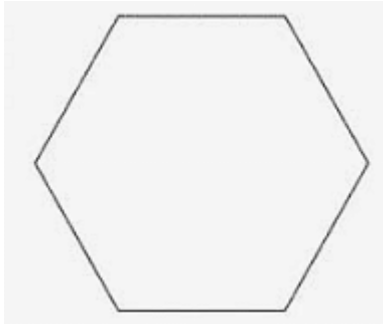
Question 10: Fill in the blanks:

- All the sides of a square are equal.
- A simple closed curve made of line segments only is called a polygon.

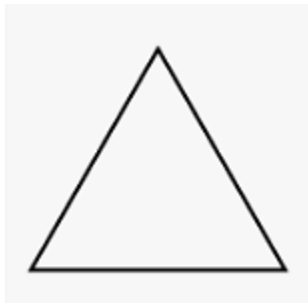
- A polygon made of three-line segments is called a **triangle**.

Question 11: Draw a rough sketch of a:

A polygon having 6 sides



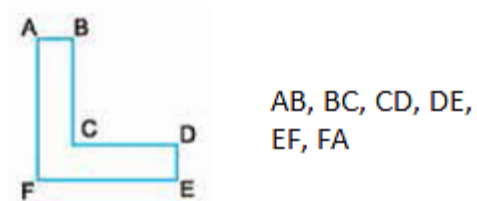
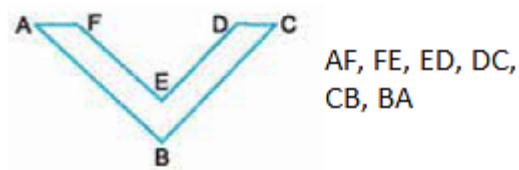
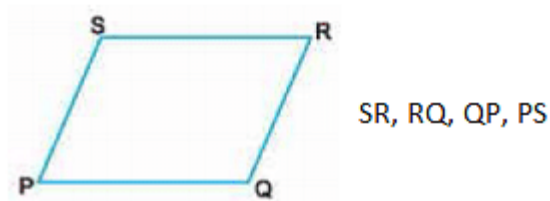
Triangle



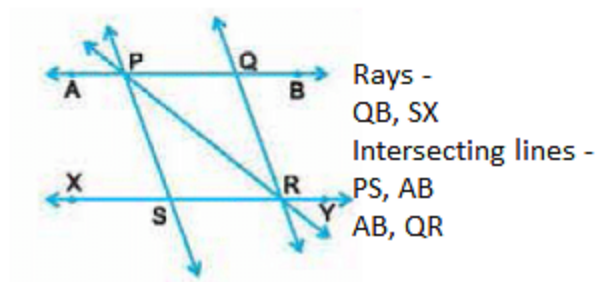
Quadrilateral which is not a square or a rectangle.



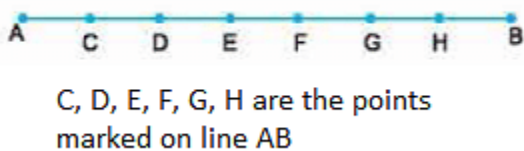
Question 12: Name the line segments in each of the following figures:



Question 13: In the figure, name:



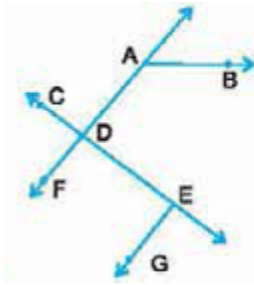
Question 14: Name the points marked between A and B.



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

- $12 \text{ cm} = 12/2 = 6\text{cm}$
- $4 \text{ cm} = 4/2 = 2\text{cm}$

Question 20: Find the diameter of the circle whose radius is:
Radius = 2 x diameter

- $8 \text{ cm} = 8 \times 2 = 16\text{cm}$

- $3 \text{ cm} = 3 \times 2 = 6\text{cm}$