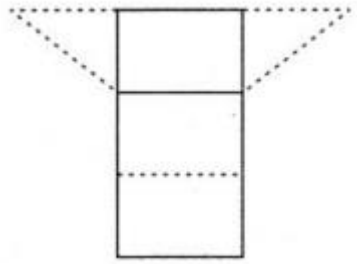
Grade 8 Visualising Solid Shapes Worksheets

Grade 8 Maths Visualising Solid Shapes Multiple Choice Questions (MCQs)

1. **An iron almirah is an example of a**
(a) Cuboid
(b) Cube
(c) Cylinder
(d) Rectangular pyramid
2. **Two cubes of dimensions 2 cm × 2 cm × 2 cm are placed side by side, the length of resulting cuboid is:**
(a) 2 cm
(b) 3 cm
(c) 4 cm
(d) 6 cm
3. **What is the minimum number of faces a pyramid can have?**
(a) 1
(b) 3
(c) 5
(d) 4
4. **The net given alongside is of**
(a) Triangular pyramid
(b) Triangular prism
(c) Square pyramid
(d) Pentagonal pyramid



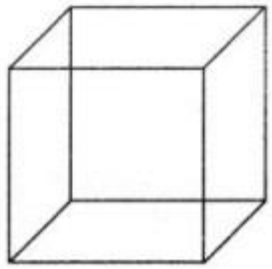
5. **Which of the following solids has the maximum number of vertices?**
(a) Tetrahedron
(b) Cuboid
(c) Octahedron
(d) Cylinder
6. **The number of faces of a triangular prism is ……. .**
(a) 6

(b) 8
(c) 4
(d) 5

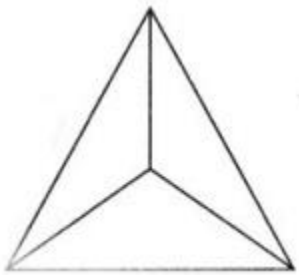
7. **The number of faces of a square pyramid is …….. .**
(a) 6
(b) 8
(c) 4
(d) 5

8. **What will be the number of edges if there are 12 vertices and 20 faces?**
(a) 32
(b) 28
(c) 30
(d) 42

9. **Name of the solid given alongside**
(a) Pyramid
(b) Cone
(c) Cube
(d) Cuboid

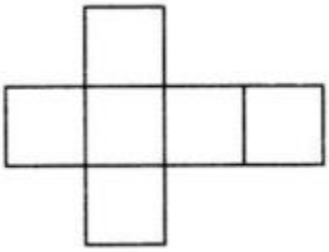


10. **Name of the solid given alongside**
(a) Pyramid
(b) Cone
(c) Cube
(d) Cuboid

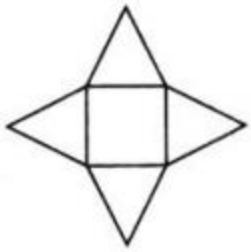


11. **Name of the solid whose net diagram is given alongside**
(a) Pyramid
(b) Cone
(c) Cube

(d) Cuboid

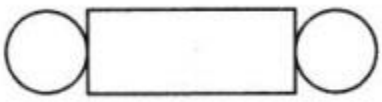


12. **Name of the solid whose net diagram is given alongside**
(a) Pyramid
(b) Cone
(c) Cube
(d) Cuboid



13. **Name of the solid whose net diagram is given alongside**
(a) Cylinder
(b) Cone
(c) Sphere
(d) Cuboid

14. **Name of the solid whose net diagram is given alongside**
(a) Cylinder
(b) Cone
(c) Sphere
(d) Cuboid



15. **Two dice are placed side by side with 5 + 2, what is the total on the face opposite to the given numbers?**

(a) 3
(b) 7
(c) 11
(d) 6

16. **What cross-sections do you get when you give a vertical cut to the brick?**
(a) rectangle
(b) square
(c) circle
(d) triangle

17. **What cross-sections do you get when you give a vertical cut to a die?**
(a) rectangle
(b) square
(c) circle
(d) triangle

18. **What cross-sections do you get when you give a vertical cut to the circular pipe?**
(a) rectangle
(b) square
(c) circle
(d) triangle

19. **What cross-sections do you get when you give a vertical cut to an ice-cream cone?**
(a) rectangle
(b) square
(c) circle
(d) triangle

20. **What cross-sections do you get when you give a horizontal cut to an ice-cream cone?**
(a) rectangle
(b) square
(c) circle
(d) triangle

Class 8 Maths Visualising Solid Shapes Fill In The Blanks

1. A cube has …….. verices, ……. edges and …… faces.
2. The point at which three faces of a 3-D figure meet is known as its …… .
3. A cuboid is also known as a rectangular …… .
4. A triangular pyramid is also called as …… .
5. A square prism is same as a …… .
6. The corners of a solid shape are called its …… .

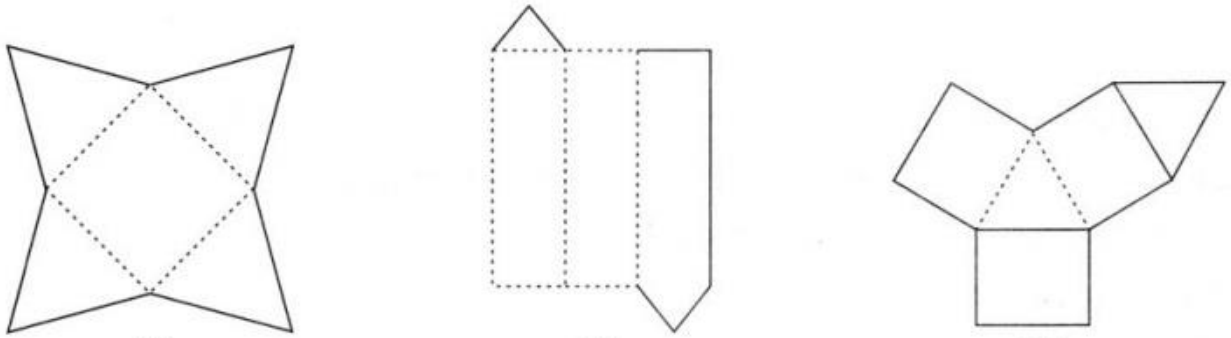
7. A …….. is a skeleton-outline of a solid that can be folded to make it.
8. A cuboid has …… rectangular faces.
9. The number of faces of a cylinder is …… .
10. The number of faces of a cone is …… .

Class 8 Maths Visualising Solid Shapes Very Short Answer Type Questions

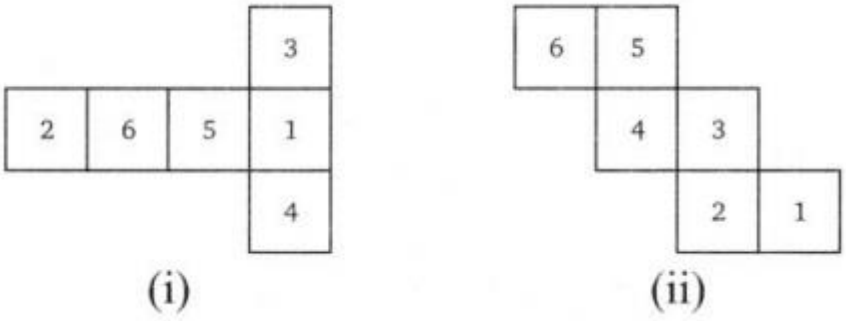
1. What will be the number of faces if there are 6 vertices and 12 edges?
2. Two dice are placed side by side with 5 + 6, what is the total on the face opposite to the given numbers?
3. Two dice are placed side by side with 6 + 2, what is the total on the face opposite to the given numbers?
4. What cross-sections do you get when you give a horizontal cut to the brick?
5. What is the other name of a triangular pyramid?
6. State the Euler's formula for polyhedrons.

Class 8 Maths Visualising Solid Shapes Short Answer Type Questions

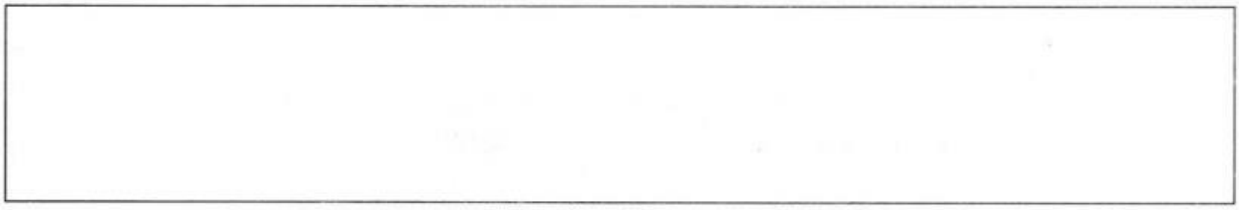
1. Name the polyhedron that can be made by folding each net:



2. Dice are cubes where the numbers on the opposite face must total 7 which of the following are dice?



3. Draw the front, side and top view of a brick.



4. How are prisms are cylinders alike?

Class 8 Maths Visualising Solid Shapes Long Answer Type Questions

1. Using Euler's formula, complete the following:

Faces (F)	6	5	8
Vertices (V)	V_1 = ...	V_2 = ...	12
Edges (E)	12	8	E_1 = ...

2. Can a polyhedron have 8 faces, 14 edges and 6 vertices? Specify reason.
3. Draw the net of a cone.