

MATHS

NCERT - NCERT MATHS(TELUGU)

UNDERSTANDING 3D AND 2D SHAPES

Exercise

1. What is the shape of the face of a cube?



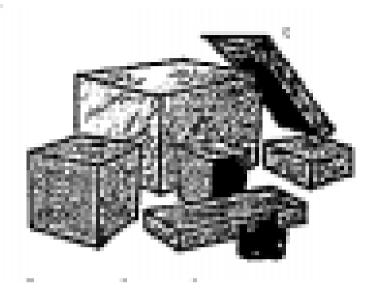
2. What is the shape of the face of a cuboid?



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3. Ramesh has collected some boxes in his room. Pictures of these are given here. How

many are cubes and how many are cuboids?





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4. Ajith has made a cuboid by arranging cubes of 2 cm each. What is the length, breadth and height of the cuboid so formed?

5. Fill the table accordingly.

S.No.	Object	Shape	Slides only	Roll only	Slides & Rolls
1.	Cell	Cylindrical	×	×	. 1
2.	Ball				
3.	Oil can		-		
4.	Biscuit packet				
5.	Coin				
6.	Marble				
7.	Orange				



6. What is the difference between a cylin der and a cone with respect to the num ber of faces, vertices and edges ?



7. A triangular pyramid has a triangle at its base. It is also known as a tetrahedron. Find the number of Faces:



8. A triangular pyramid has a triangle at its base. It is also known as a tetrahedron. Find the number of Edges:

9. A triangular pyramid has a triangle at its base. It is also known as a tetrahedron. Find the number of Vertices :



10. Asquare Pyramid has a square at its base.

Find the number of Faces : ____



11. Asquare Pyramid has a square at its base. Find the number of Edges:



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12. A square Pyramid has a square at its base.

Find the number of Vertices : _____



13. Fill the table

			· Caronel
Shape	No. of curved surfaces	No. of plane surfaces	No. of vertices
0-70	,		



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14. A triangular prism is often in the shape of a Kaleidoscope. It has triangular faces. No. of triangular Faces:

rectangular Faces : No. of Edges :
No. of Vertices :
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15. Draw ten polygons with different shapes in
your note book.
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16 Use matcheticks or broom sticks and form
16. Use matchsticks or broom- sticks and form
closed figures using six sticks In which case

was it not possible to form a Polygon? Why?



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17. Use matchsticks or broom- sticks and form closed figures using five sticks In which case was it not possible to form a Polygon ? Why?



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18. Use matchsticks or broom- sticks and form closed figures using four sticks In which case

was it not possible to form a Polygon? Why?



19. Use matchsticks or broom- sticks and form closed figures using three sticks In which case was it not possible to form a Polygon? Why?

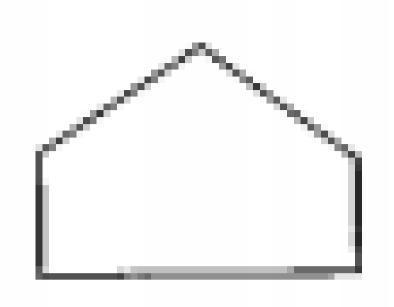


20. Use matchsticks or broom- sticks and form closed figures using two sticks In which case

was it not possible to form a Polygon? Why?



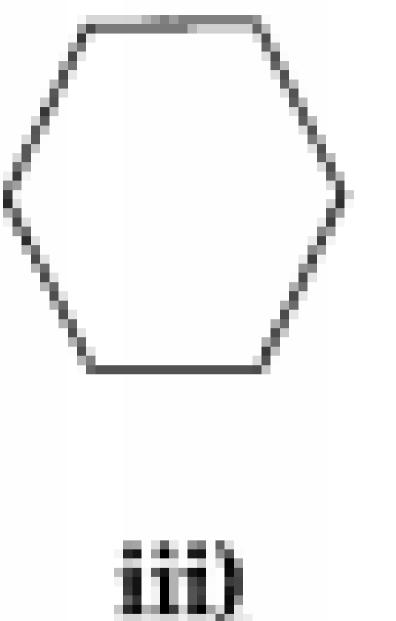
21. Count the number of sides of the polygons given below and name them.





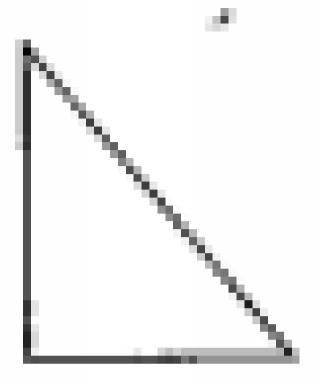


22. Count the number of sides of the polygons given below and name them.





23. Count the number of sides of the polygons given below and name them.







24. Fill in the blanks : The shapes spread in two directions only are called ______.



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25. Fill in the blanks: The number of edges tho cuboid has _____.



26. Fill in the blanks : Tube light is in the shape of _____.



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27. Fill in the blanks : The heap of grain is the shape of _____.



28. Fill in the blanks : The faces of the pyramidare in _____ shape.



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29. A closed figure which has five sides is called .

A. A. quadrilateral

B. B. Septagon

C. C. Pentagon

D. D. Octagon

Answer:



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30. The example of regular polygon _____

A. A. scalene triangle

B. B. equilateral triangle

C. C. Rectangle

D. D. None

Answer:



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31. The shape of the Earth is _____.

A. A. Cylindrical

B. B. Conical

C. C. Pyramidal

D. D. Spherical

Answer:



32. The number of sides in octagon are

A. 8

B. 9

C. 6

D. 7

Answer:

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33. If we cut a lemon into half, then we get the shape _____.

A. Sphere

B. Semisphere

C. Cylinder

D. Pyramid

Answer:



34. State whether the following state ments True/False: square is a 3-D shaped object.



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35. State whether the following state ments

True/False: The base of a cylinder is a circle.



36. State whether the following state ments True/False: A tetrahedron is also called a triangular Pyramid.



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37. State whether the following state ments True/False: A triangular prism has two rectangular faces.



38. State whether the following state ments True/False: A polygon must have atleast three sides.



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39. Define 2-D and 3-D shapes 7 Give examples?



40. Ajith has made a cuboid by arranging cubes of 2 cm each. What is the length, breadth and height of the cuboid so formed?



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41. Fill the table accordingly.

S.No.	Object	Shape	Slides only	Roll only	Slides & Rolls
ī.	Road Roller	cylindrical			
2.	Water Melon	Spherical			
3.	Carroms striker	Cylindrical			
4.	Mathematical Instrument Box	Cuboid			
5.	Text Book	Cuboid			
6.	A piece of waterpipe	Cylindrical			



42. Draw the following figures of regular polygons: Regular Pentagon



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43. Draw the following figures of regular polygons: Regular Hexagon



44. Draw the following figures of regular polygons: Regular Septagon



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45. Draw the following figures of regular polygons: Regular Octagon



46. Define Regular Polygon ? Explain with two examples?



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47. Draw different types of prisms?

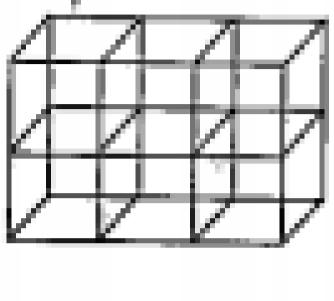


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48. Give some examples of curved surfaces and plane surfaces.

49. Dheeraj has a made a cuboid by arranging cubes of 3 cms each. Find the length, breadth

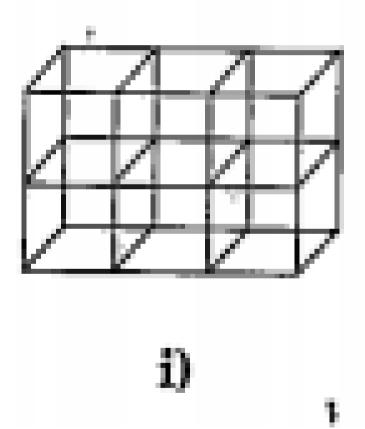
and height of the following figures.







50. Dheeraj has a made a cuboid by arranging cubes of 3 cms each. Find the length, breadth and height of the following figures.





51. If 3 cubes of 2 cm each are arranged side by side, then the length of the cuboid is ______ times to the length of the cube.



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52. A box is in the shape of cuboid and its dimensions are $6cm \times 4cm \times 2cm$. How many small cubes of each of size 2 cm can be arranged in the box.



