



Grade 6

Mathematics

Unit : 17 - Solids

- Answer all questions.

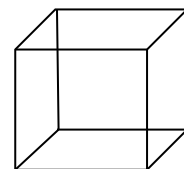
Part I

1. Name two objects which take the shape of a cube.
 2. Write the number of edges and the number of vertices of a cube.
 3. Name two objects that you can observe in your environment which take the shape of a cuboid.
 4. What is known as a solid object?
 5. Write the number of edges and faces of a regular tetrahedron.
 6. Write the number of faces of a cuboid.
 7. Write one property of a trapezium.
- Write down solids in which each of the following rectilinear plane figures can be observed.
 8. Rectangle
 9. Square
 10. Triangle

Part II

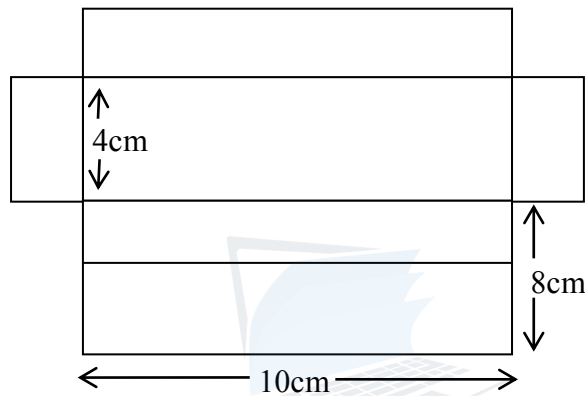
- (1) 1 & Draw a suitable net to prepare a cube of side length 4cm.
- 2 & A compound solid is made by placing the cube in the figure on an identical cube, such that two of the faces coincide and then pasting them together.

- i) What is the name of the solid that is made?
- ii) Write down the measurements of the solid.

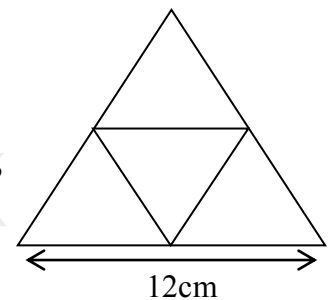


3cm

- (2) 1 & Draw a net to make a box having the shape of a cuboid'
- 2 & Write down the number of edges and the number of vertices of a cuboid'
- 3 & Write down the length, breadth and height of the cuboid that can be made with the net of the figure'
- 4 & Write down two properties of cuboid'



- (3) i) a) What is the shape of face of a regular tetrahedron?
 b) What is the length of an edge of the model of a regular tetrahedron that can be made using the net given in the figure?



- ii) A solid has been made by placing two identical regular tetrahedrons together, such that two of their faces coincide and then pasting these two faces together. For this compound solid, write down
- the number of faces
 - the number of edges
 - the number of vertices
- iii) Draw a suitable net to create a model of a regular tetrahedron with edges of length 6 cm.

Prepared by Ms. T. R. N. Niwanthie



agaram.lk