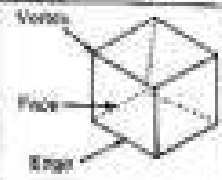


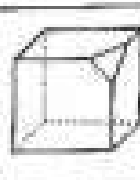


**RD SHARMA**  
**Solutions**  
**Class 7 Maths**  
**Chapter 19**  
**Ex 19.1**

**Q1: Complete the following table and verify Euler's formula in each case.**

				
Faces (F)	6	4		
Edges (E)	12			
Vertices (V)	8	4		

**A1:**

	i	ii	iii	iv
Faces (F)	6	4	9	7
Edges (E)	12	6	16	15
Vertices (V)	8	4	9	10
Euler's formula (F - E + V)	$6 - 12 + 8 = 2$	$4 - 6 + 4 = 2$	$9 - 16 + 9 = 2$	$7 - 15 + 10 = 2$

Hence Euler's formula is verified for these figures.

**Q2: Give three examples from our daily life which are in the form of**

- (i) a cone
- (ii) a sphere
- (iii) a cuboid
- (iv) a cylinder
- (v) a pyramid.

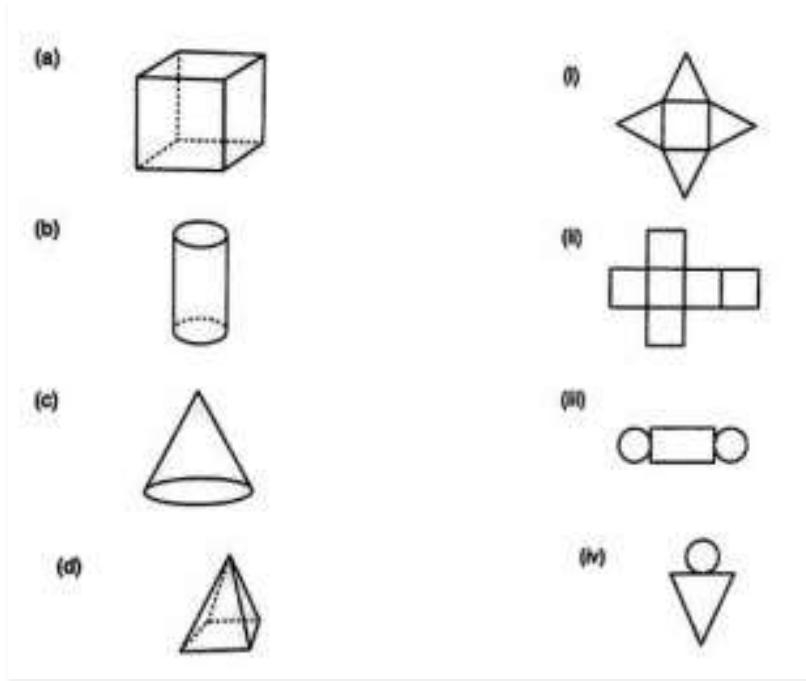
**A2:**

Examples of

- (i) Cone: Ice-cream cone, clown cap, rocket
- (ii) Sphere: Football, a round apple, an orange
- (iii) Cuboid: book, brick, duster
- (iv) Cylinder : circular pipe, glass, circular pole
- (v) Christmas decorations, cheese and patio umbrellas.

**RD SHARMA**  
**Solutions**  
**Class 7 Maths**  
**Chapter 19**  
**Ex 19.2**

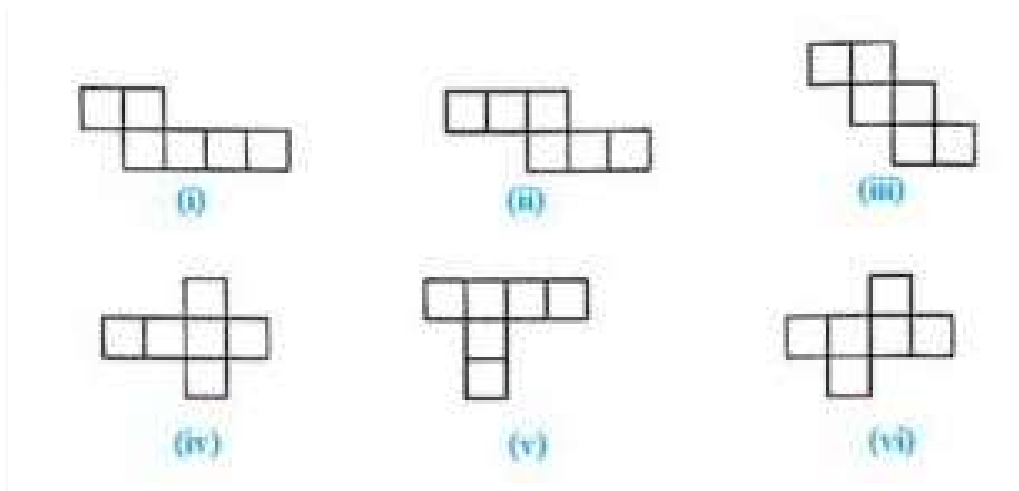
Q1: Match the following nets with appropriate solids:



A1: Here,

- (a) -> (ii)
- (b) -> (iii)
- (c) -> (iv)
- (d) -> (i)

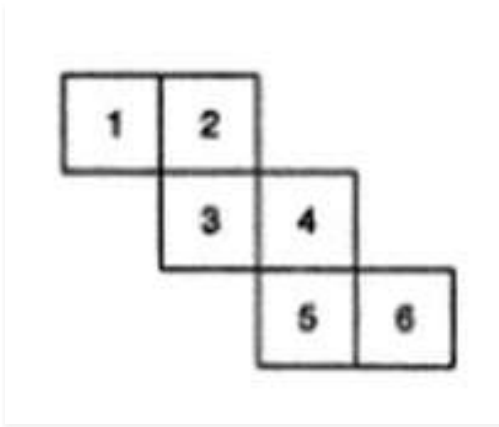
Q2: Identify the nets which can be used to make cubes (cut-out the nets and try it):



A2:

Only (ii), (iv) and (vi) form a cube.

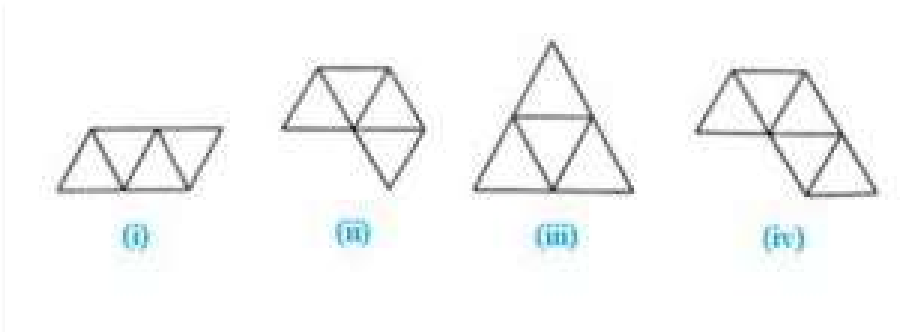
Q3: Can the following be a net for a die? Explain your answer.



A3:

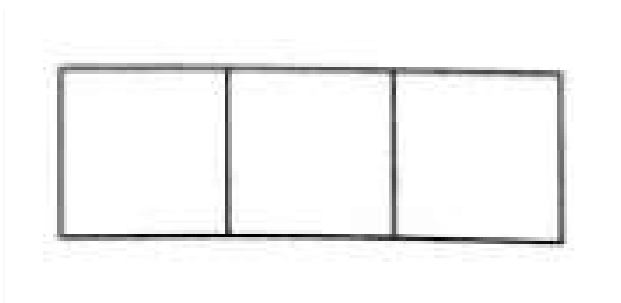
Since, in a die, the sum of the number of opposite faces of a die is 7. In the given figure, it is not possible to get the sum as 7. Hence the given net is not suitable for a die.

Q4: Out of the following four nets there are two correct nets to make a tetrahedron. Identify them.



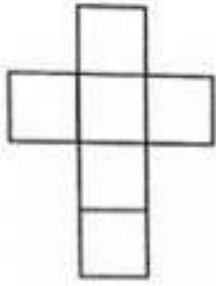
A4: For making a tetrahedron, only (i) and (iii) are suitable nets.

Q5: Here is an incomplete net for making a cube. Complete it in at least two different ways.

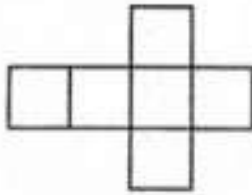


A5:

The complete nets for making a cube are Images



(i)



(ii)