

**RD SHARMA**

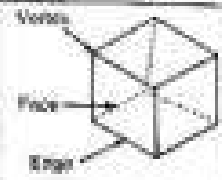


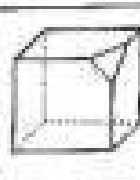
**Solutions**

**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.