

Selina Solutions Concise Maths Class 7 Chapter 18 – Recognition of Solids (Representing 3-D in 2-D)

EXERCISE 18

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Solution:

Nets (i), (ii) and (v) can be used to form cubes.

2. Draw at least three different nets for making a cube. Solution:



3. The figure, given below, shows shadows of some **3D** objects, when seen under the lamp of an overhead projector:



4. Using Euler's formula, find the values of a, b, c and d.

Faces	а	5	20	6
Vertices	6	b	12	d
Edges	12	9	С	12
a				1

Solution:



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Faces	а	5	20	6
Vertices	6	b	12	d
Edges	12	9	С	12

(i) We can write it as a + 6 - 12 = 2By further calculation a = 2 - 6 + 12a = 14 - 6 = 8

(ii) We can write it as b + 5 - 9 = 2By further calculation b = 2 + 9 - 5b = 6

(iii) We can write it as 20 + 12 - c = 2By further calculation 32 - c = 2c = 32 - 2 = 30

(iv) We can write it as 6 + d - 12 = 2By further calculation d - 6 = 2d = 2 + 6 = 8

5. Dice are cubes with dot or dots on each face. Opposite faces of a die always have a total of seven on them.



Below are given two nets to make dice (cube), the numbers inserted in each square indicate the number of dots in it.



Insert suitable numbers in each blank so that numbers in opposite faces of the die have a total of seven dots.

Solution:



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6. The following figures represent nets of some solids. Name the solids.



Solution:

The figures of nets represent some solids like:

(i) Cube

(ii) Cuboid

7. Draw a map of your class room using proper scale and symbols for different objects. Solution:



8. Draw a map of your school compound using proper scale and symbols for various features like play ground, main building, garden, etc. Solution:



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9. In the map of India, the distance between two cities is 13.8 cm. Taking scale : 1 cm = 12 km, find the actual distance between these two cities. Solution:

It is given that Scale for a map is 1 cm = 12 kmWe know that Distance between two cities on the map = 13.8 cmSo the actual distance between these two cities = $12 \times 13.8 = 165.6 \text{ km}$

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