

Board – CBSE

Class – 8th

Topic – Visualizing Solids Shapes

Q.1 Find the number of faces do the following solids have:

(i) Regular octahedron

(ii) Hexagonal pyramid

Q.2 Find the number of vertices the following solids have:

(i) Pentagonal pyramid

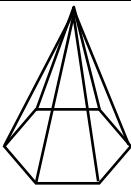
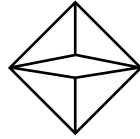
(ii) Hexagonal prism

Q.3 How many edges does each of the following solids have?

(i) Cone

(ii) Octagonal prism

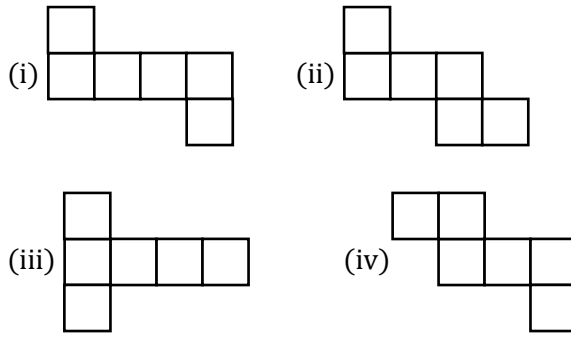
Q.4 Fill the following table and verify Euler's Formula:

Solid	f	v	e	f + v	e + 2
(i) 					
(ii) 					

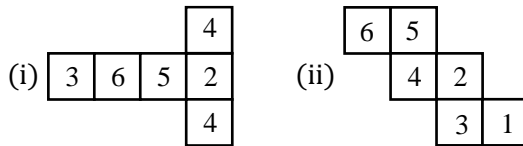
Q.5 If a polyhedron has six faces and eight vertices, how many edges does it have?

Q.6 How many faces a polyhedron will have if it has sixteen vertices and four edges.

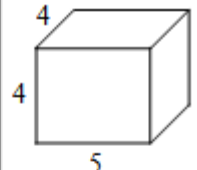
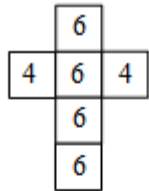
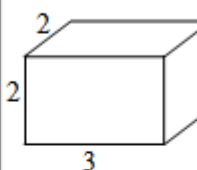
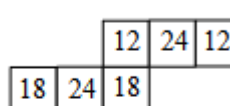
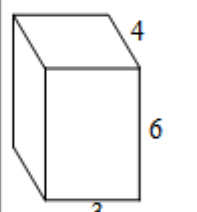
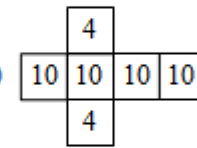
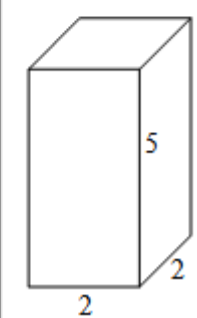
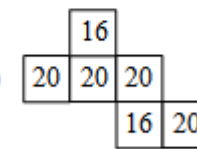
Q.7 Which among the following are nets for a cube:



Q.8 Dice are cubes where the sum of number on opposite sides must be 8. Which of the following are dice?



Q.9 Match the following:

<p>(a) </p>	<p>(i) </p>
<p>(b) </p>	<p>(ii) </p>
<p>(c) </p>	<p>(iii) </p>
<p>(d) </p>	<p>(iv) </p>

ANSWER

1. (i) 8 and (ii) 7

2. (i) 6 and (ii) 12 (a) $\frac{3}{4}$ (iv), (b): (i), (c): (ii) and (d): (iii)

3. (i) 1, (ii) 24

5. 12

6. 10

7. (i), (ii) and (iii)

8. (i)

9.