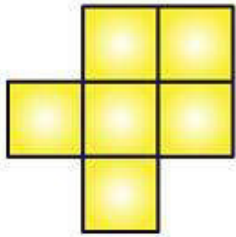
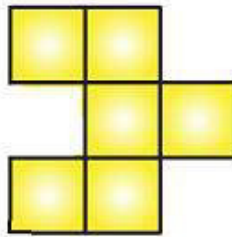


EXERCISE 19.2

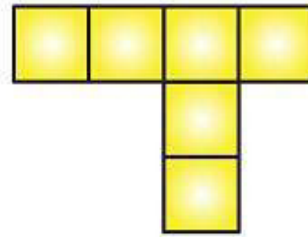
1. Which among of the following are nets for a cube?



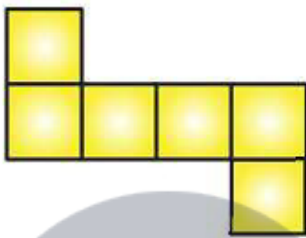
(i)



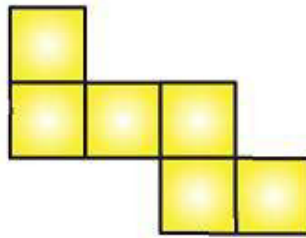
(ii)



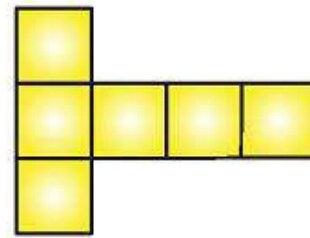
(iii)



(iv)



(v)



(vi)

Solution:

Figure (iv), (v), (vi) are the nets for a cube.

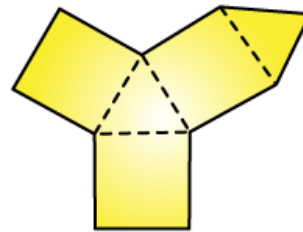
2. Name the polyhedron that can be made by folding each net:



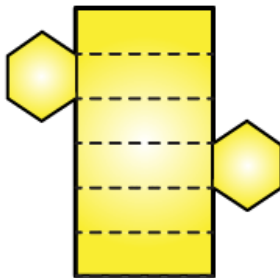
(i)



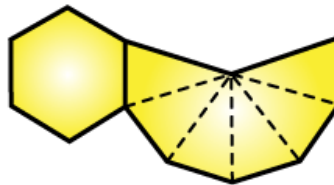
(ii)



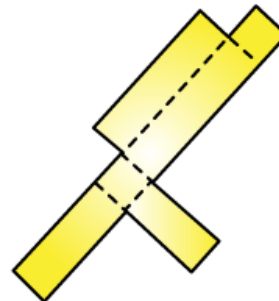
(iii)



(iv)



(v)

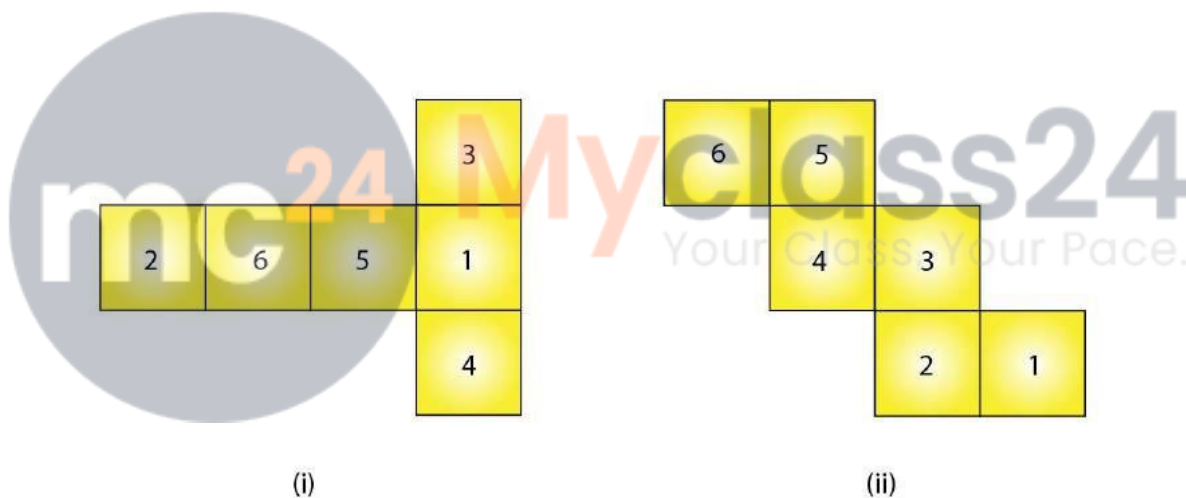


(vi)

Solution:

- (i) From figure (i), a Square pyramid can be made by folding each net.
- (ii) From figure (ii), a Triangular prism can be made by folding each net.
- (iii) From figure (iii), a Triangular prism can be made by folding each net.
- (iv) From figure (iv), a Hexagonal prism can be made by folding each net.
- (v) From figure (v), a Hexagonal pyramid can be made by folding each net.
- (vi) From figure (vi), a Cuboid can be made by folding each net.

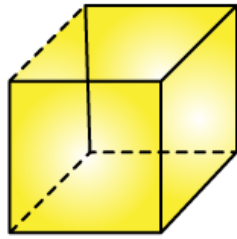
3. Dice are cubes where the numbers on the opposite faces must total 7. Which of the following are dice?



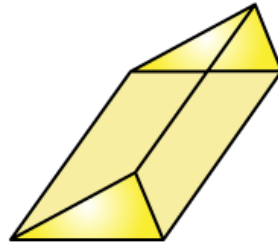
Solution:

Figure (i), is a dice. Since the sum of numbers on opposite faces is 7 ($3 + 4 = 7$ and $6 + 1 = 7$).

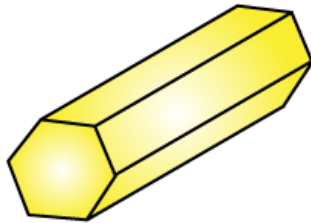
4. Draw nets for each of the following polyhedrons:



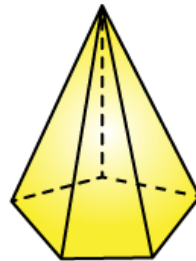
A cube



A triangular prism



A hexagonal prism



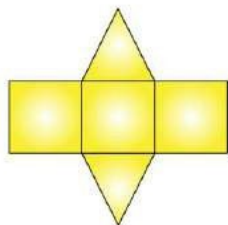
A pentagonal pyramid

Solution:

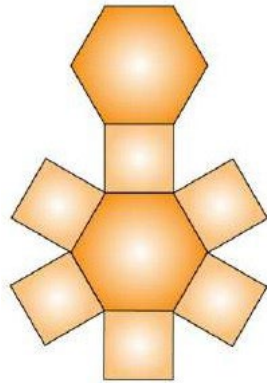
(i) The net pattern for cube is



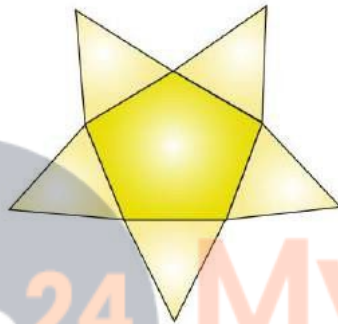
(ii) The pattern for triangular prism is



(iii) The net pattern for hexagonal prism is



(iv) The net pattern for pentagonal pyramid is

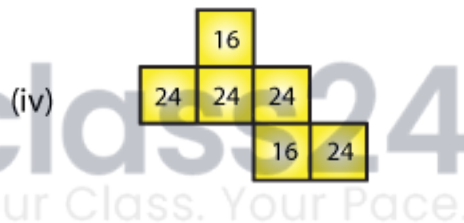
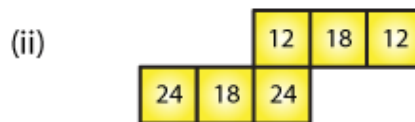
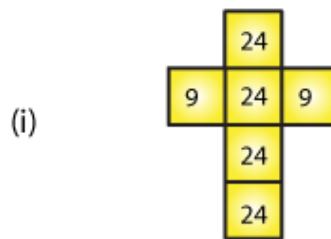
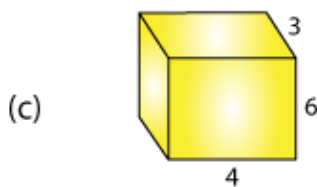
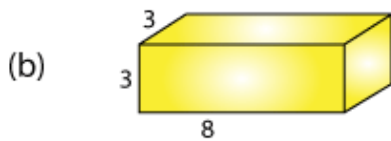
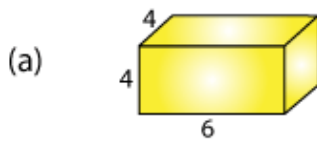


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5. Match the following figures:



Solution:

(a)-(iv) Because multiplication of numbers on adjacent faces are equal, where $6 \times 4 = 24$ and $4 \times 4 = 16$

(b)-(i) Because multiplication of numbers on adjacent faces are equal, where $3 \times 3 = 9$ and $8 \times 3 = 24$

(c)-(ii) Because multiplication of numbers on adjacent faces are equal, where $6 \times 4 = 24$ and $6 \times 3 = 18$

(d)-(iii) Because multiplication of numbers on adjacent faces are equal, where $3 \times 3 = 9$ and $3 \times 9 = 27$