



CREST Mathematics Olympiad (CMO) Worksheet *for* Class 8



Topic

Visualising Solid Shapes



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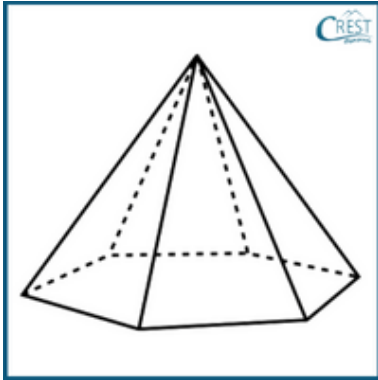
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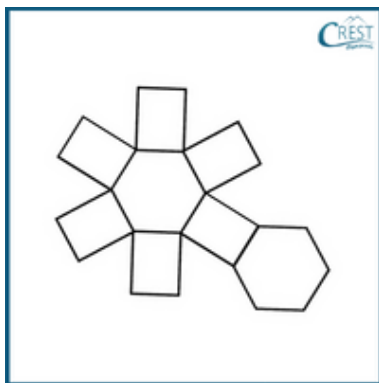
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Worksheet on Visualising Solid Shapes

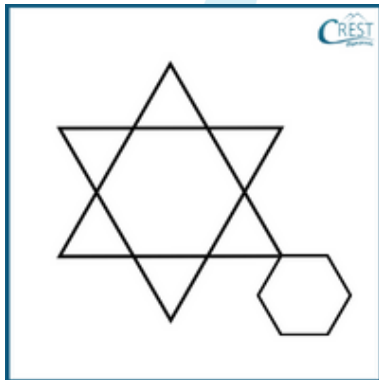
1. Which one is the correct net of the question figure?



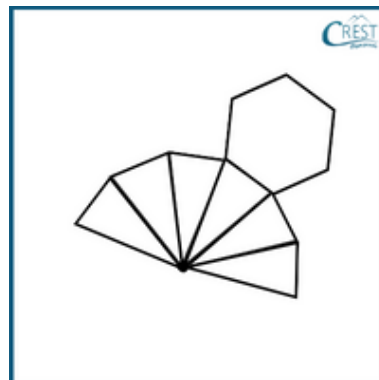
a.



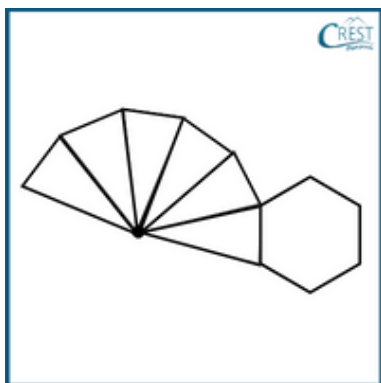
b.



c.



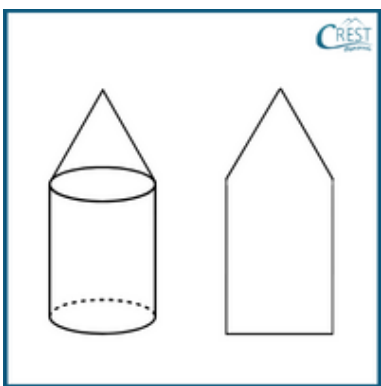
d.



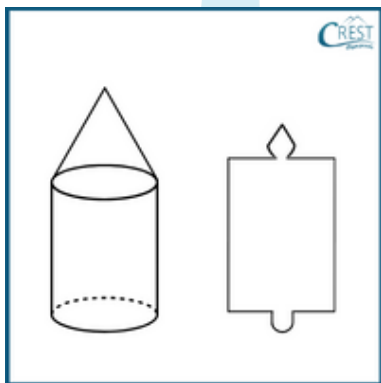
2. Which is the correct net that matches the shape?

Which is the correct option that matches the shape of its net?

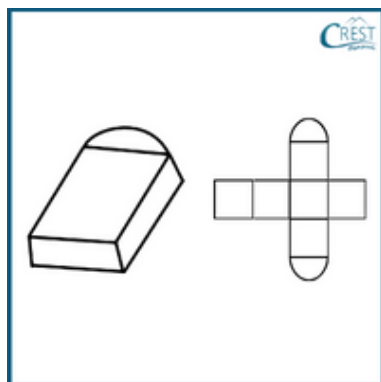
a.



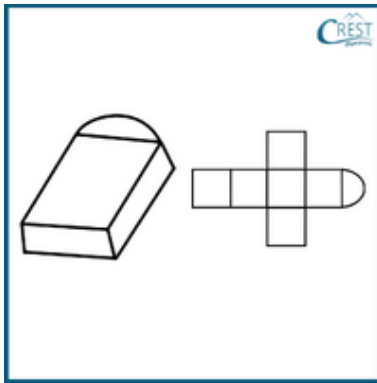
b.



c.



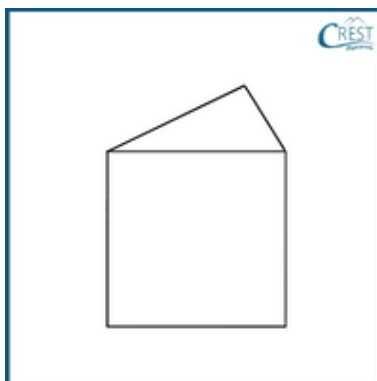
d.



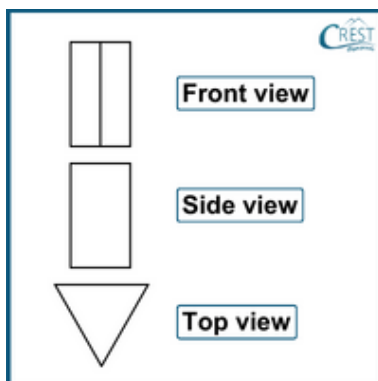
3. If a polyhedron has 5230 edges and 3241 vertices, then what is the number of its faces?

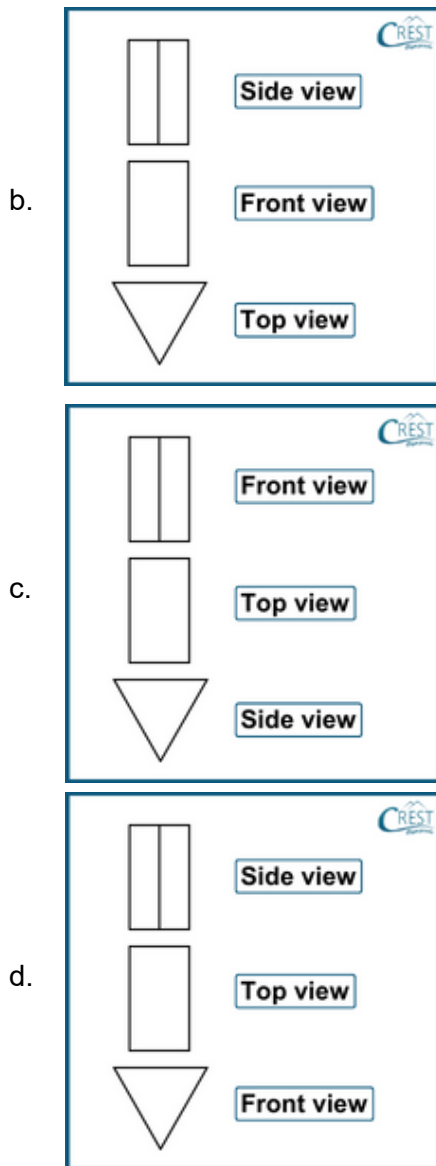
- a. 1889
- b. 1899
- c. 1991
- d. 1993

4. Which option shows the different views of the given figure?

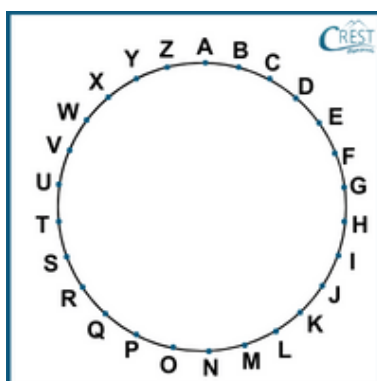


a.





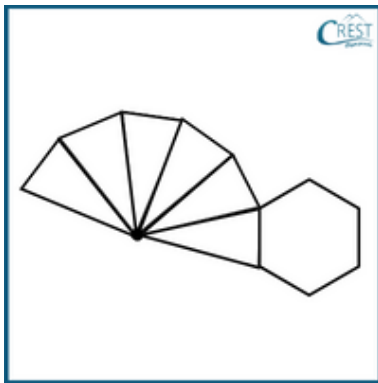
5. What is the angle of rotation of the given regular polygon?



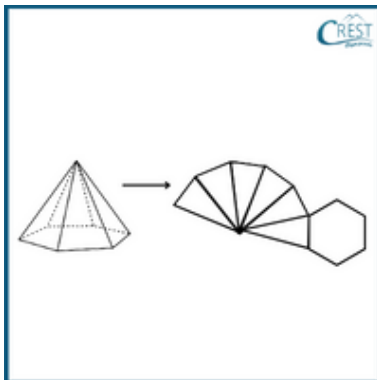
- a. 15°
- b. 18°
- c. 20°
- d. 24°

Answer Key

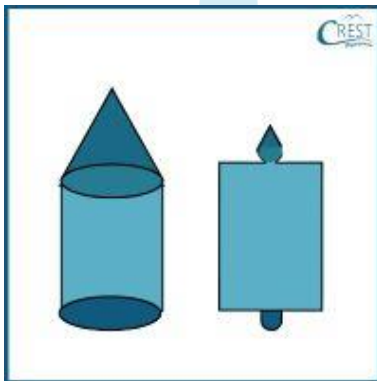
1. d -



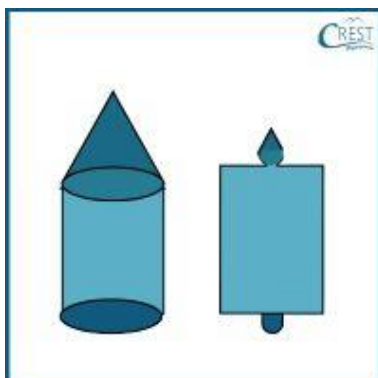
Explanation: The question figure is a hexagonal pyramid. The net is shown as:



2. b -



Explanation: The net that matches the shape is shown as:



3. c - 1991

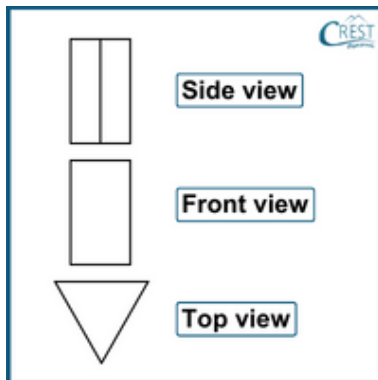
Explanation: $V + F = E + 2$

$$\Rightarrow F = E - V + 2$$

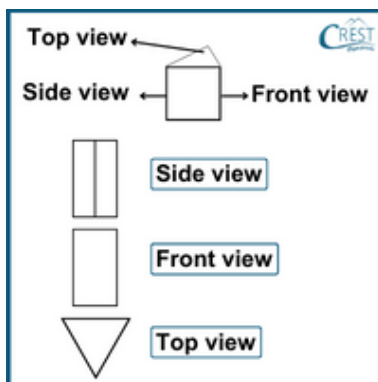
$$\Rightarrow F = 5230 - 3241 + 2$$

$$\therefore F = 1991$$

4. b -



Explanation: The different views of the question figure are as follows:



5. a - 15°

Explanation: The number of sides of the given regular polygon (icositetragon) is 24.

$$\text{Angle of rotation} = 360^\circ / 24 = 15^\circ$$

More Questions Coming Soon – Keep Learning!

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