ZiloAcademy

✨ Grade 6 Maths — 3D Objects ✨

Name: Demo Grade 6 **Date:** 26/11/2026

1. Which has more edges: a prism with a 12-sided base, or a prism with a 17-sided base?

2. A cube has 6 faces, 12 edges, and 8 vertices. Does it satisfy Euler's formula (F + V − E = 2)? Write "yes" or "no":

3. Which has more edges: a prism with a 6-sided base, or a pyramid with a 17-sided base?

4. Which has more edges: a prism with a 4-sided base, or a pyramid with a 17-sided base?

5. A pentagonal prism has 7 faces and 10 vertices. Using Euler's formula (F + V − E = 2), how many edges does it have?

6. What 3D shape is a tent (triangular cross-section)?

7. A square pyramid has 5 faces, 8 edges, and 5 vertices. Does it satisfy Euler's formula (F + V – E = 2)? Write "yes" or "no":

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8. Is a triangular pyramid a prism or a pyramid?

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9. A cube has 6 faces and 8 vertices. Using Euler's formula (F + V – E = 2), how many edges does it have?

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10. A rectangular prism has 6 faces, 12 edges, and 8 vertices. Does it satisfy Euler's formula (F + V – E = 2)? Write "yes" or "no":

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