ZiloAcademy

✨ Grade 9 Maths — 3D Geometry ✨

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

1. How many faces does a sphere have?

2. A rectangular prism's base diagonal is 75 cm (from a 45×60 base) and the prism's height is 8 cm. Find the space diagonal, to 1 decimal place:

3. A rectangular prism's base diagonal is 5 cm (from a 3×4 base) and the prism's height is 13 cm. Find the space diagonal, to 1 decimal place:

4. A rectangular prism is **5** cm × **5** cm × **12** cm. What is its volume (in cm^3)?

5. A rectangular prism's base diagonal is 61 cm (from a 11×60 base) and the prism's height is 13 cm. Find the space diagonal, to 1 decimal place:

6. A rectangular prism's base diagonal is 26 cm (from a 10×24 base) and the prism's height is 7 cm. Find the space diagonal, to 1 decimal place:

7. How many faces does a 26-sided prism have?

8. A rectangular prism is **8** cm × **5** cm × **10** cm. What is its volume (in cm^3)?

9. A rectangular prism's base diagonal is 53 cm (from a 28×45 base) and the prism's height is 14 cm. Find the space diagonal, to 1 decimal place:

10. How many faces does a 14-sided prism have?