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| **Volume and Surface Area Revision** | | | | |
| **(a)** | **(b)** | **(c)** | | **(d)** |
| The volume of a cuboid is Its height is and the length is . Find the width of the cuboid. | Find the surface area of a cube with side length . | The volume of the prism is Find .  A diagram of a triangle  Description automatically generated | | Find the surface area of this prism.  A red triangle with black lines and black arrows with Great Pyramid of Giza in the background  Description automatically generated |
| **(e)** | **(f)** | **(g)** | | **(h)** |
| Find the volume of the cylinder, giving your answer to 3 significant figures.  A yellow cylinder with black lines and black arrows  Description automatically generated | Find the total surface area of the cylinder, leaving your answer in terms of  A yellow cylinder with black lines and black text  Description automatically generated | The volume of a sphere is . Find the radius of the sphere. | | Find the total surface area of the hemisphere, giving your answer to 3 significant figures.  A yellow bowl with black text and a black arrow  Description automatically generated |
| **(i)** | **(j)** | | **(k)** | |
| Find the volume of the cone, leaving your answer in terms  A cone with black text and black arrows  Description automatically generated with medium confidence of | A green cone with black text  Description automatically generatedA cone has a slanted height of and a curved surface area of Find the volume of the cone, giving your answer to 3 significant figures. | | A cylinder has a height of and a radius of . A sphere has a radius of . The volume of the cylinder and the sphere are equal. Find the value of . | |