**Volume and Surface Area Revision**

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| **(a)** | **(b)** | **(c)** | **(d)** |
| The volume of a cuboid is $320 cm^{3}.$ Its height is $16 cm$ and the length is $5 cm$. Find the width of the cuboid. | Find the surface area of a cube with side length $8.5 cm$. | The volume of the prism is $264 cm^{3}. $Find $x$. | Find the surface area of this prism. |
| **(e)** | **(f)** | **(g)** | **(h)** |
| Find the volume of the cylinder, giving your answer to 3 significant figures. | Find the total surface area of the cylinder, leaving your answer in terms of $π.$ | The volume of a sphere is $288π cm^{3}$. Find the radius of the sphere. | Find the total surface area of the hemisphere, giving your answer to 3 significant figures. |
| **(i)** | **(j)** | **(k)** |
| Find the volume of the cone, leaving your answer in terms of $π.$  | A cone has a slanted height of $10 cm$ and a curved surface area of $60π cm^{2}.$ Find the volume of the cone, giving your answer to 3 significant figures. | A cylinder has a height of $16 cm$ and a radius of $x cm$. A sphere has a radius of $2x cm$. The volume of the cylinder and the sphere are equal. Find the value of $x$. |