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| **Surface Areas of Cylinders, Cones and Spheres** | | | |
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| **(a)** | **(b)** | | **(c)** |
| Find the curved surface area, giving your answer in terms of | Find the surface area, giving your answer to 3 significant figures | | Find the curved surface area giving your answer to the nearest |
| **(d)** | **(e)** | | **(f)** |
| Find the **total** surface area, giving your answer to 2 decimal places | Find the **total** surface area, giving your answer to the nearest | | Find the surface area, leaving your answer in terms of |
| **(g)** | **(h)** | | **(i)** |
| Find the total surface area of the hemisphere, leaving your answer in terms of | The cone has a curved surface area of . Find the radius to 1 decimal place. | | The total surface area is Find the height of the cylinder. |
| **(j)** | | **(k)** | |
| A shape is made by joining a hemisphere to a cylinder. Both have a radius of . Find the surface area of the compound shape to the nearest . | | A shape is made by joining a cone to a hemisphere, where both shapes have the same radius. The total surface area is . Find the slanted height of the cone. | |