

Geometry

Notes

Metric unit conversion

Imperial unit conversion

3D Solid formula review

Prism

Pyramid

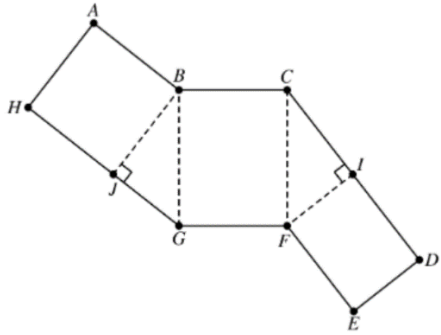
Sphere

Cylinder

Cone

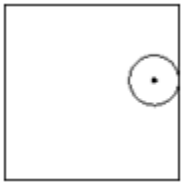
Constraints on the length of triangles

5. The figure below are made of rectangles and right triangles; it can be folded into a triangular prism. Suppose that $AH=EF=12$ and $GH=17$. What is the volume of the prism?



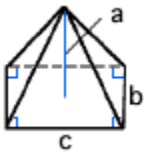
Practice questions

1. A circle of radius 2 rolls completely around the inside perimeter of a square of side 10. What distance is covered by the centre of the circle?



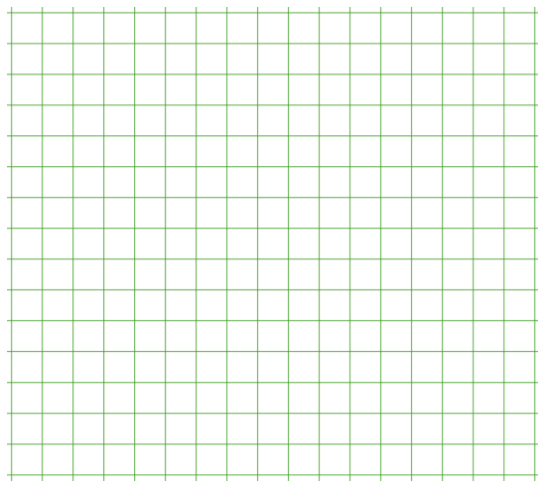
2. Find the volume and the surface area of cone with radius 3m and height 5m. Leave π in the answer.

3. Find the volume of the below pyramid; $a = 9\text{cm}$, $b = 5\text{cm}$, $c = 10\text{cm}$.



4. Find the area of the quadrilaterals formed by the coordinates.

a) (1, 3), (1, 6), (4, 6), and (10, 3)



b) (-6, 10), (-6, 6), (2, 10), and (2, 6)

