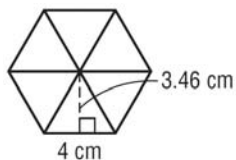


Enrich

Volume of Hexagonal Prisms

To determine the area of a regular hexagon, divide it into 6 congruent triangles. Determine the area of one triangle and multiply by 6.



$$A = \left(\frac{1}{2}bh\right) \cdot 6$$

$$A = \left(\frac{1}{2}bh\right) \cdot 4 \cdot 3.46 \cdot 6$$

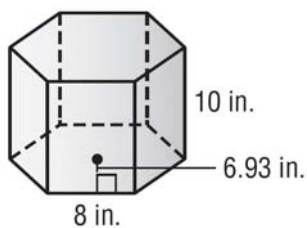
$$A \approx 6.92 \cdot 6 \text{ or about } 41.52$$

To determine the volume of a regular hexagonal prism, multiply the area of the base and the height.

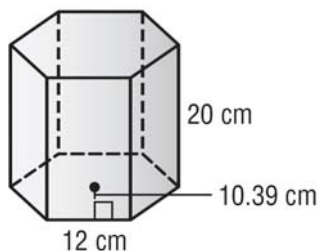
Exercises

Determine the volume of each regular hexagonal prism. Round to the nearest tenth.

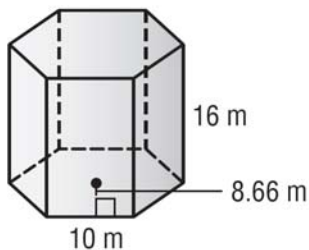
1.



2.



3.



4.

