

5A.5 Learning Opportunity

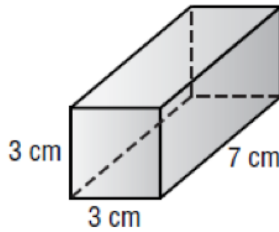
Volume of prisms and cylinders



Name: _____

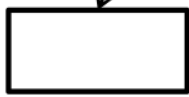
Find the volume of each prism or cylinder shown below. I have done the first one for you as an example. You **must** write the formulas you use (as shown in my example), but you may use a calculator for your computations. Don't forget to include the proper units in your answer. (When necessary, use $\pi \approx 3.14$).

1.



$$\begin{aligned} B &= bh \\ B &= 7 \times 3 \\ B &= 21 \text{ cm}^2 \\ V &= Bh \\ V &= 21 \times 3 \\ V &= 63 \text{ cm}^3 \end{aligned}$$

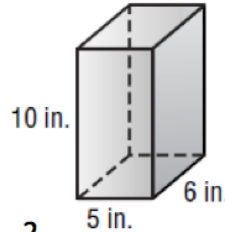
Base



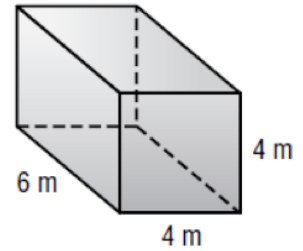
3 cm.

7 cm.

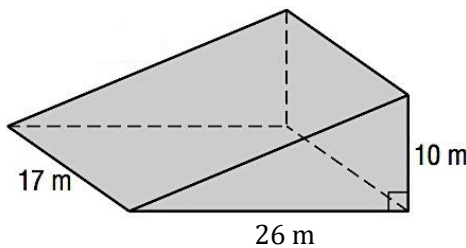
2.



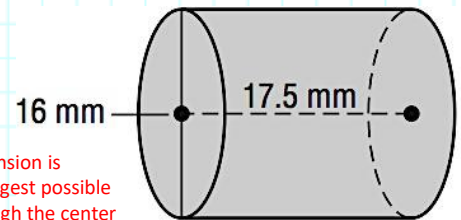
3.



4)

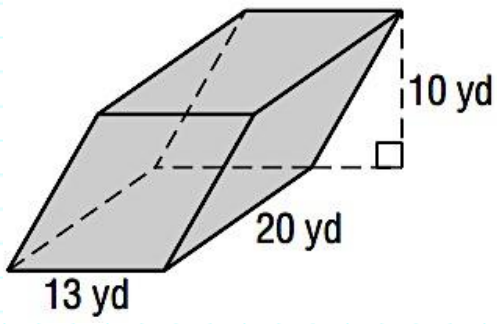


5)

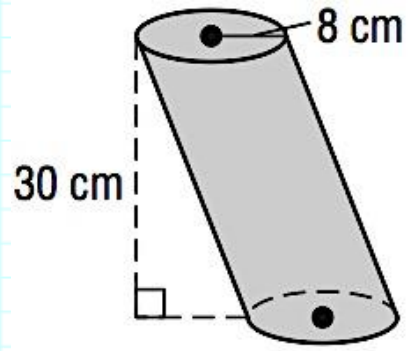


Because this dimension is pointing to the longest possible chord (going through the center of the circle) this is the diameter.

6)



7)



8) Find the volume of the three-dimensional solid shown below. (It is not drawn to scale, but all required measurements are provided)

