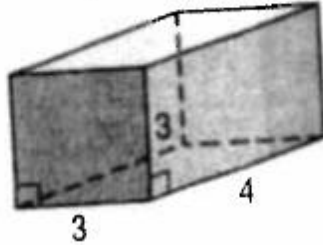


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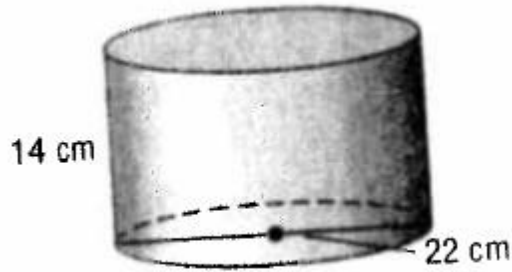
Geometry
Unit 9
HW 9-1

1) Find the surface area and volume for the following rectangular prism:



2) A cube has a base with an area of $196ft^2$. Find the volume of this cube.

3) Find the surface area and volume in terms of π for the following cylinder:



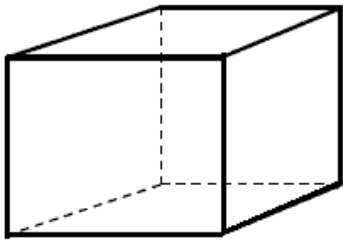
4) Find the surface area and volume to the nearest tenth for the following cylinder:
(15 is the diagonal distance)



5) If the volume of a right circular cylinder is $980\pi \text{ in}^3$ and it is 1.25 feet tall what is its diameter?

6) The Parkside Packing Company needs a rectangular shipping box. The box must have a length of 11 inches and a width of 8 inches. Find, to the *nearest tenth of an inch*, the minimum height of the box such that the volume is *at least* 800 cubic inches.

7) If the following cube has a volume of 64 cm^3 find its surface area:



8) A right circular cylinder has an altitude of 11 feet and a radius of 5 feet. What is the lateral area, in square feet, of the cylinder, to the *nearest tenth*?