READY FOR THE TEST???

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 Chapter 6 Surface Area, Volume, and Capacity, Practice Your New Skills.pdf

Sample Test

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Worksheet

(8.a)
$$V = \pi v^2 h$$

= $\pi (0.8)^2 (1.2)$
= 2.41 m^3

$$V = \frac{4}{3} \pi r^{3}$$

$$= \frac{4}{3} \pi (0.0285)^{3}$$

$$= 0.000097 \text{ m}^{3}$$

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1. a) Retio Volume to SA. of a cube length l

$$\int_{SA} = \frac{\int_{0}^{3} 1}{\int_{0}^{2} 1}$$

$$= \int_{0}^{2} \frac{1}{\int_{0}^{2} 1}$$

$$= \int_{0}^{2} \frac{1}{\int_{0}^{2} 1}$$

1. b) Volume to S.A. sphere withradius r.

$$V = \frac{4}{3} \operatorname{Tir}^{3}$$

$$SA = 4 \operatorname{Tir}^{2}$$

$$V = \frac{4}{3} \operatorname{Tir}^{3}$$

$$SA = \frac{4}{1} \operatorname{Tir}^{2}$$

$$SA = \frac{4}{1} \operatorname{Tir}^{2}$$

$$SA = \frac{4}{1} \operatorname{Tir}^{2}$$

$$= \frac{r}{3}$$

$$\frac{4}{3}$$
, $\frac{4}{3}$

c) Sphere + Cube have same S.A.

$$A = 4\pi r^{2} (sphere)$$

$$A = 2l^{2} + 2l^{2} + 2l^{2}$$

$$= 6l^{2}$$

$$6l^{2} = 4\pi r^{2}$$

$$l^{2} = 4\pi r^{2}$$

$$l = \sqrt{\frac{2}{3}\pi} r$$

$$= 1.447r$$

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$$V = Luh + \frac{luh_2}{3}$$

$$= (53)(25)(30) + (53)(25)(15)$$

$$= 39750 + 6625$$

$$= 46375 \text{ cm}^3$$

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