Chapter 12

Indicate	the	best	answer	by	writing	the	appropriate	letter.
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1.	What is the volume a. 108		id with dimensions 1 c. 432	2, 9, and 6? d. 648				
2		irface area of the sol		u. 040				
2.	a. 234	b. 468	c. 252	d. 360				
3.	Two similar cones	have heights 5 and	20. What is the r	atio of their				
	volumes?							
	a. 1:64	b. 1:4		d. 4:16				
4.	What is the volume height 6?	e of a regular square	e pyramid with base	edge 16 and				
	a. 128	b. 256	c. 512	d. 1536				
5.		area of the pyramid		4. 1000				
	a. 256	b. 320	c. 576	d. 640				
6.	A sphere has area	16π . What is its vol	lume?					
	a. $\frac{8\pi}{3}$	b. $\frac{32\pi}{3}$	c. $\frac{64\pi}{3}$	d. $\frac{256\pi}{3}$				
	3	3	3	3				
7.	A cone has radius 5 and height 12. A cylinder with radius 10 has the same volume as the cone. What is the cylinder's height?							
		b. 2		d 4				
0	a. 1		c. 3	d. 4				
8.	the cube?	in a cylinder with	radius 5. What is th	ie volume of				
		b. $250\sqrt{2}$	c. 125	d. 100				
9.	A plane passes 2 cm from the center of a sphere with radius 4 cm. What							
		ircle of intersection?		2				
			c. $18\pi \text{ cm}^2$					
10.			with radius 4 and h					
	a. 16π		c. 48π	d. 80π				
11.		ds have volumes 2/ a e lateral area of the	and 125. If the small	er has lateral				
	a. 30	1	c. 50	d. 25				
12.	The base of a right		hexagon with side 4.					
		What is the volume						
	a. $144\sqrt{3}$	b. $72\sqrt{3}$	c. $48\sqrt{3}$	d. $36\sqrt{3}$				
13.	What is the lateral	area of the prism in	Exercise 12?					
	a. 24	b. 36	c. 72	d. 144				
14.			th radius 9 and stant					
	a. 108π	b. 189π	c. $81\pi\sqrt{7}$	d. 216π				