## **Practice 48**Similar Solids

Lessons 12-4, 12-5

Complete the table for spheres.

١	2.	<u> </u>	
11.	6	2 <u>1</u> 3	Radius
?	144π	971	Area
j. [⊷	11.88°C	위	Volume

Find the area of a circle formed when a plane passes 3 cm from

the center of a sphere with radius 7 cm. 40 % CM

- Ċ hemisphere of radius 4 cm. Find the volume of the figure A cube with each edge of length 8 cm is topped by a
- 9 are squares with sides 20 cm and 35 cm. Are the pyramids Two regular pyramids have heights 12 cm and 21 cm. Their bases

7 similar? following: Two spheres have diameters 14 and 21. Find the ratios of the

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c. volumes

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- Two similar cones have volumes in the ratio 27.64. Find the ratios of the following: a. radii b. areas
- b. base circumferences c. lateral areas

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- Two similar prisms have lateral areas 48 and 75. Find the ratios of the following:
- a. heights b. total areas c. volumes
- 10. Two similar pyramids have a scale factor of 3:5. If the total area of the smaller pyramid is 36 m<sup>2</sup>, find the total area of the
- 1 Two similar prisms have volumes 54 and 250. If the lateral area smaller prism. of the larger prism is 150, find the lateral area of the larger pyramid. -00 M