## Practice 49

## Chapter 12 Practice

A rectangular solid with height 3 has a square base with side 5. Find the volume and total area.

volume = 75 , total area = 16

the pyramid and find the following values. A regular square pyramid has base edge 6 and height 4. Sketch

slant height =  $\frac{1}{2}$  lateral area =  $\frac{1}{2}$ 

volume = 48

cylinder. 637 m3 A cylinder has radius 3 m and height 7 m. Find the volume of the

amount of paper needed. Wrapping paper is to be glued to the cylinder in Exercise 3 so that the cylinder is completely covered, including the bases. Find the 60 IT M

'n Find the lateral area of a cone with radius 4 and height 4. 16 1 72

- Ö A cone of radius 5 has volume 75 $\pi$ . Find the height of the cone
- 7. Find the area and volume of a sphere with radius 5. area =  $\frac{100 \text{ ff}}{100 \text{ ye}}$ , volume =  $\frac{500 \text{ ff}}{3}$

8. Find the volume of a sphere with area 36m. 36T

- 9 respectively. Are the cylinders similar? Two right cylinders have radii 25 and 55, and heights 10 and 22
- 10. Two similar cones have radii in the ratio 2:5. Find the ratios of the following:

a. slant heights 2:5 b. lateral areas 4:35

Two similar pyramids have lateral areas 72 and 98. The height of the smaller pyramid is 12. Find the height of the larger pyramid. Ç volumes C