AW 11

Working Backwards Worksheet

Short Answer: Show all your work and formulas used.

1. The area of the base of a square based pyramid is 7582 square feet. What is the length of the base?

   Answer: _________________

2. The lateral area of a square based pyramid is 4582 square inches. The base is 35.5 inches long. What is the slant height?

   Answer: _________________

3. The lateral area of this cone is 139.45 cm². What is the slant height?

   Answer: _________________
4. What is height of this cylinder if the lateral area is 8753.55 cm²?

Answer: _______________________________

5. What is the height of box shown if the volume is 9527 cm³?

Answer: _______________________________

6. What are the dimensions of a cube with a volume of 512 mm³?

Answer: _______________________________
7. What is the radius of a sphere with a surface area of 5874.5 mm²?

Answer: 

8. Calculate the diameter of a sphere with a volume of 8752 mm³.

Answer: 

9. The volume of ice cream that can fit into a waffle cone with a diameter of 20 cm is 785.4 cm³. Imagine the ice cream fills the cone right to the top, and does not go above the edge of the cone. What is the height of the cone? (Be careful)

Answer: 