

2. Page 35 Number 18 Draw two square pyramids and indicate what is what. Go to Google images to get a picture of these pyramids.
3. A pile of salt is in the shape of a right cone. It is stored at a local department of highways depot which has a height of 24 ft and a base circumference of 36 ft. Determine the surface area of the pile of salt that is visible. A tarp covers 500 ft.² was purchased to cover the pile. Determine will the tarp be sufficient or not to cover the pile. Why or why not?
4. A piece of insulated chimney is in the shape of a cylinder. Determine the amount of plastic wrap that must go around a piece that is 48 in. in length and 16 in. in diameter. The wrap is a heavy type of plastic that cost 0.005 cents per square in. to cover each length of chimney. Determine the cost of covering a chimney that is 32 feet in length in dollars and cents. ($SA_{\text{cylinder}} = 2\pi rh + 2\pi r^2$)

Determining missing Unknowns given Surface Area

- 5 The surface area of a right cone is 200 in.² and its radius is 5.2 in. Determine the slant height of the cone to the nearest unit.

- 6 A right pyramid with a square base has a lateral area of 600 cm^2 . If the base has sides that are 8 cm in length, determine the height of the pyramid to the nearest unit.
- 7 A cylinder has a surface area of 680 cm^2 . The height is 4 times greater than the radius. Approximate the height of the cylinder to the nearest unit.