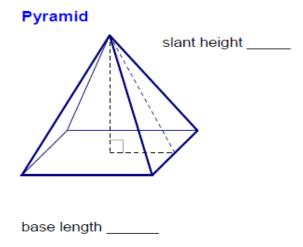
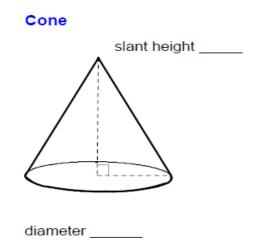
## The Container!

The GeoBellies company wishes to make a new type of container for their product. The designer has created two containers: one the shape of a square-based pyramid, and the other a cone.

## Your first job is to determine which container holds more.

1. Label the dimensions from your group card.





- 2. Determine the height of each container. Show all of your work.
- 3. How much can each container hold? Show your work.
- 4. If the geobellies cost \$0.005/cm<sup>3</sup>, how much will it cost to fill each container?
- 5. Identify the shape with the greater volume.
- 6. Make a recommendation for the preferred design shape. Provide at least two reasons for your choice.

## Your second job is to determine which container has the most surface area.

- 7. Discuss with your partner how you could find the height of each container. Record your ideas using words, pictures, and symbols
- 8. Determine the surface area of each container. Show all of your work.
- 9. If the material to make each container costs \$0.075/cm<sup>2</sup>, how much will it cost to make each container?
- 10. Now make another recommendation for the preferred design shape. Provide at least two reasons for your choice.

## Your third job is to determine what price to charge.

11. FINALLY: How much should you charge your customers for your product. Provide at least two reasons for your choice.