

Name: \_\_\_\_\_

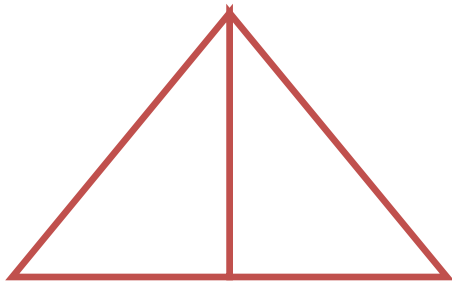
Date: \_\_\_\_\_

## SNACK ATTACK! - PART I

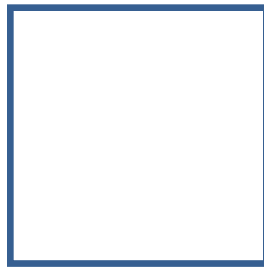


A store manager told an employee that he needed to display 30 boxes of Little Debbie Snacks™ Oatmeal Crème Pies in three different ways in the store. The three designs are shown below.

*Note: This is just what the front of the display would look like to onlookers.*



*Base: 8 feet  
Height: 5 Feet*



*Side Length:  
5 Feet*



*Base 1: 5 feet  
Base 2: 4 Feet  
Height: 5 Feet*

Your task is to help the employee figure out the display that will use the greatest number of boxes (in the front-most stack) given the dimensions of each display. Each of your groups will be given a sample Oatmeal Crème Pie box. You will be allowed to use the rulers and calculators provided (and your noggin, of course) to solve this problem.

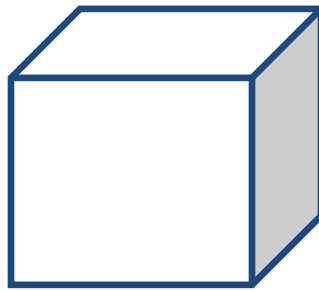
In the space below, show your work and explain the process you used to arrive at your answer.

Your answer should include the number of boxes that you found will be in each display.

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## SNACK ATTACK! – PART II



( *Side Length:  
5 Feet* )

The employee that you just helped out is very grateful, but the store manager has now informed him that he must use the square display design. Using what you discovered regarding the number of boxes that can fit in the front most stack of the square display, determine the number of boxes that can fit in the entire cubic display.

In the space below, show your work and explain the process you used to arrive at your answer. Your answer should include the volume of the cubic display as well as the number of boxes that will be in the display.

Name: \_\_\_\_\_

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## **SNACK ATTACK! – PART III**

The store manager is really happy that the employee you have been helping has been so productive in putting up the display. However, because he doesn't want shoppers to purchase the snacks until tomorrow, he needs the employee to put a cover over the display. What is the minimum size that the cover will need to be in order to cover 5 sides of the cubic display?

Show your work and explain your reasoning below. *Hint: Your answer should include a modified calculation of the surface area of the cube.*