## Robot Project

## Name

Sheppard Toy Company (STC) wants to produce a new product. After weeks of market research, they learn that there is a high interest in robots. STC would like to make the largest robot possible (as measured by volume) for the least amount of money. Cost will be based on the surface area of the robot.
You have been chosen to make a prototype of the new toy. The robot with the greatest volume will win!

## Good luck!


4. Have a peer check your work. They must sign off on each surface area and $\quad$ - Calculator volume measurement. A calculator should be used to check work.
*By typing my name below, I acknowledge that all of the measurements above are correct. If there were mistakes I left feedback and have checked them again after being corrected. *

Peer Signature:
5. Determine Material Costs

- Cardboard costs $\$ 0.06$ per sq in. What is the total cost of cardboard needed to build your robot?
- Cost of cardboard:
- The robot needs to be filled with unit cubes to help it stand up. Unit cubes are costs $\$ 0.12$ per cubic in. What is the total cost of the unit cubes needed to fill your robot?
- Cost of unit cubes:
- Assuming that adhesives are free, what is the total cost of your robot?
- Total Cost:

| 6. Build Your Figures. Make sure to label all of your pieces for storage in the <br> classroom. Assemble your robot and tape to a piece of construction paper. | - Nets <br> - Tape <br> - Scissors |
| :--- | :--- |
| 7. Name your Robot. Create a FLYER introducing your Robot as the New Toy <br> of the Year! Use the flyer to persuade kids to buy your toy. Make it colorful! | Paper <br> Markers/crayons |

