**The problem:** Aunt Bertha runs a popular ice cream shop. She sells cones of two sizes, large and small, but has decided to begin selling only one size cone. She will sell either all small cones or all large ones. Aunt Bertha has asked you to help her determine the most profitable cone.

**The task:** Write a letter to Aunt Bertha. Explain which size cone you think she should sell and why. Be sure to clearly explain how you arrived at your decision. Include mathematical justification of your decision.

**The Details:** Bertha’s shop has steady daily sales. She spends $50 each day on three tubs of ice cream, each measuring 11 x 23 x 5 inches. She makes cones until her ice cream is gone. Cone A sells for $4 and cone B for $9. The materials for each cone costs 3 cents per square inch. Cone A has a diameter of 3 inches and a height of 3 inches. Cone B has a diameter of 4 inches and a height of 4 inches.