**Cost Analysis Problems**

1) Suppose mulch sells for $2.50 per cubic foot. You want 3 inches as the height of your mulch. Use the diagram below to determine how much it will cost you to mulch your yard.

2) The price of chocolate is $0.05 per cubic inch. You buy a bar of chocolate that is a rectangular prism with dimensions of 6 inches by 3 inches by 2 inches. How much does it cost?

3) You want to asphalt your drive way. The asphalt needs to be 2 inches tall and your drive way is a rectangle that is 20 feet by 12 feet. Asphalt costs $20 per cubic foot. How much does it cost to do your drive way?

4) A triangular field is 200 yards by 300 yards. A hole is dug out 3 inches into the ground of the field. Suppose you were to fill the field with gravel that costs $6.99 per cubic foot. How much would it cost?

5) Which option would be better? A cylindrical container of fertilizer that cost $89.00. The container has a diameter of 16 inches and a height of 28 inches. Or you can get a square prism container that costs $121.00 that has dimensions of 16 inches on the base and a height of 32 inches.