Situation #1:

Farmer Davidson has a cylindrical silo that holds corn for his cows. The silo currently contains 2,450 cubic feet of corn. A diagram of the silo is at the right.

Part A) Approximately how much space is left in the silo? **Show all work. EXPLAIN** what you did and why.

Part B) If Farmer Davidson uses 14 cubic feet of corn each day to feed his cows, how many days will his current supply last?
Situation #2:

Farmer Davidson wants to build a new cart to transport the corn throughout the barn. A diagram of the cart is at the right.

Part A) Assuming that the top of the cart is open, how many square feet of wood will the cart be made of? **Show all work.** *EXPLAIN* what you did and why?

Part B) When Farmer Davidson fills his new cart with corn for the day, what fraction of the space will he be filling? **Show all work.**