

That's about the size of it

You are an engineer for a company which has recently been awarded a multi-million dollar contract to work with a Rare And Valuable Enclosure (RAVE). You and your group must determine the volume of the RAVE without causing significant damage to this delicate piece of equipment.

You have been assigned a 45 minute period during which you may take measurements that you can use to determine the RAVE's volume. The demand for access by other groups will prevent your having another chance to perform these measurements. Damage to the RAVE could have serious consequences for your company (loss of further contracts, public embarrassment, etc.)

At the end of the 45 minute period, you should turn in a copy of your measurements. Make sure to include the names of all group members.

Your typed write-up should contain at a minimum your value for the volume, a summary of the techniques used and a supplement listing the relevant data. Other useful information may be included (e.g. error bounds, enlightening details of calculation, etc.). The write-up is due within 24 hours of the end of your session with the RAVE.