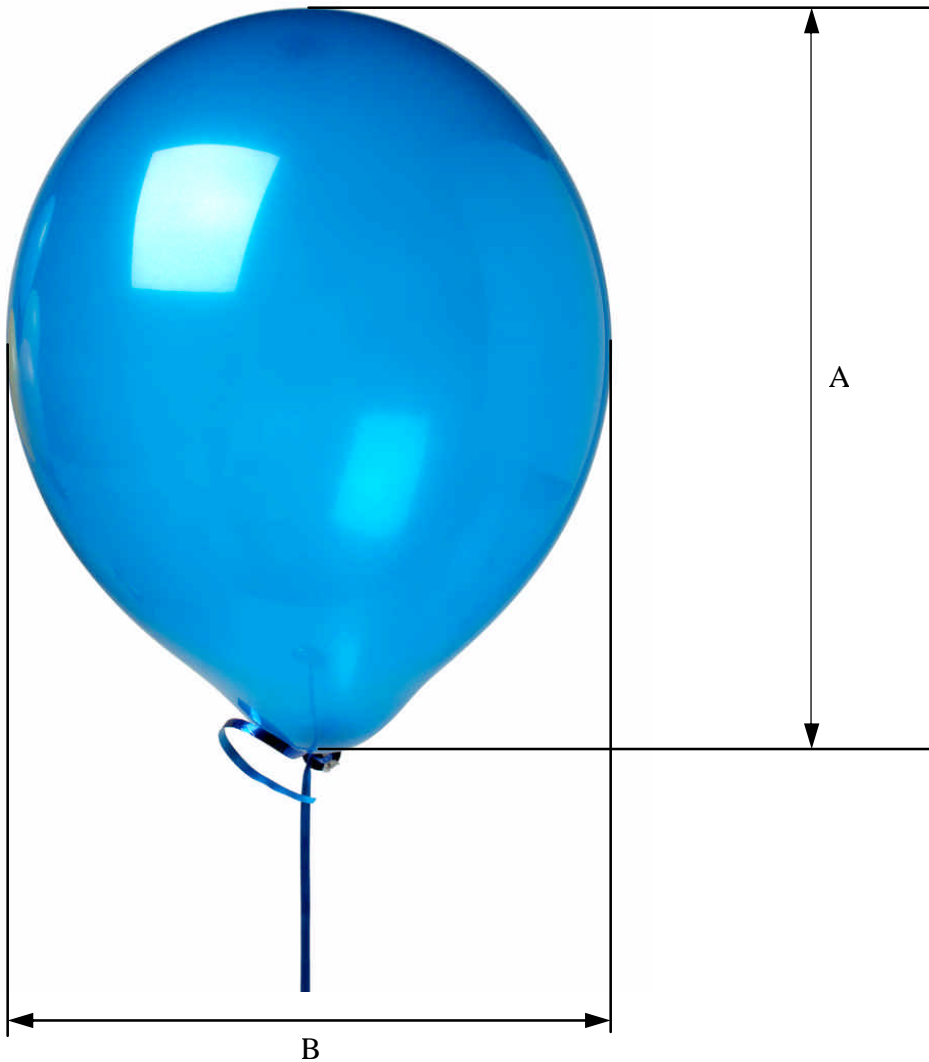


Helium Balloon Calculations



Approximate Balloon Radius (in): $R = (A/2 + B/2)/2$

Approximate Balloon Volume (in³): $V = 4/3(\pi R^3)$

Approximate Weight of Helium (grams): $W = (V/61) \times 1.25$ grams

Info from previous event:

The weight of the helium, the balloons and attaching string or straps is negated by the uplift of the helium; however, those items do have mass. Any device using helium shall be weighed and the volume (length x width x depth) of the balloons shall be measured. For every liter (61 in³) of balloon volume we shall add 0.18 grams for the weight of the helium and 1.07 grams for the offsetting uplift (a liter of air weighs 1.25 grams) to the weight measured by the scale to determine the total device weight.