

#5 WHAT IS THE MASS OF HELIUM IN THE BALLOON?

USE VOLUME FROM #2!

DENSITY OF HELIUM : .00018 $\frac{g}{cm^3}$
DENSITY = $\frac{MASS}{VOLUME}$



#6 POP THE BALLOON!

WHAT IS THE MASS OF THE BALLOON + STRING? _____ g

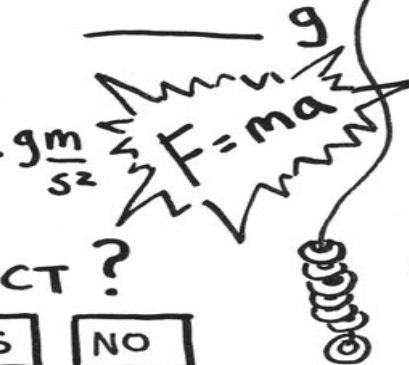
#7 WHAT IS THE MASS OF THE FROOT LOOPS® YOU ADDED? _____ g



#8 WHAT IS THE TOTAL MASS? _____ g



#9 WHAT IS THE TOTAL WEIGHT? _____ g



WAS YOUR PREDICTION CORRECT?

ALMOST YES NO

WHAT FORCE BALANCES THE DOWNWARD PULL OF GRAVITY AND HOLDS THE BALLOON UP?