

#11 (Bonus)

Chalk is a soft rock composed of calcite, CaCO_3 . How many calcium ions are used when you sign your name on the lab bench with a piece of colored sidewalk chalk?

1 How many atoms of Sulfur are in this sample?

1) Is this ^{#5} lead sample more than 2 moles Pb?

2) How many atoms are in this sample?

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3 How many moles of Copper are present in this sample?

How many moles of CaCO_3 are in 3 TUMS tablets? Assume this sample is 100% CaCO_3 .

#6 1) How many moles of zinc are in this sample?

2) Is it more than 3 moles?

#9
How many moles of
silicon dioxide are in
this ^{1/2 Tbs} sample?

#4/ Can you drink
1 mole of water?
Show a calculation to
prove this using the
conversion $1 \text{ g H}_2\text{O} = 1 \text{ mL}$

#11 BONDS

How many moles of air
can your lungs hold in one
breath? (Assume your lungs
hold 6 Liters) IF air were
all N_2 how many molecules are in
one breath.

#10 How many molecules of baking soda sodium bicarbonate (NaHCO_3) are in this ^{1/2 tsp} sample?

2 How many atoms of Iron are in this ^{1/4 cup} sample?

1) How many aluminum ^{#7} atoms are in this sample?

2) How many moles is this?

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