classwork January 4

1) " For every 24.31 grams of magnesium there are 6.02×10^{23} Mg atoms" **Rewrite**

this sentence so it is true for **SULFUR** instead of magnesium.

For every 32.06g of sulfur
there are 6.02×10^{23} atoms
of Sulfur.

2) " For every 6.02×10^{23} atoms of magnesium there is one mole of Mg atoms"

What does 39.10 K mean?

1) one atom of potassium has a mass of
   39.10 daltons
   or
   39.10 atomic mass units

2) 6.02×10^{23} atoms of potassium have a mass of 39.10 grams

Remember:
   144 things is 1 "gross"
   6.02×10^{23} things is 1 "mole"
   (the things can be pennies atoms magazines,