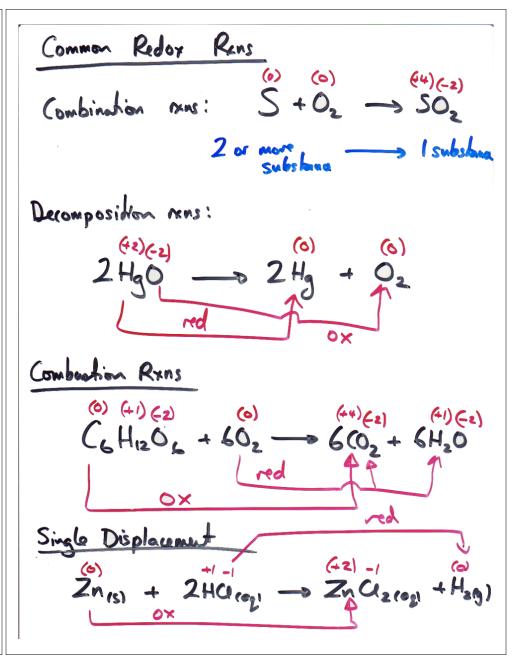
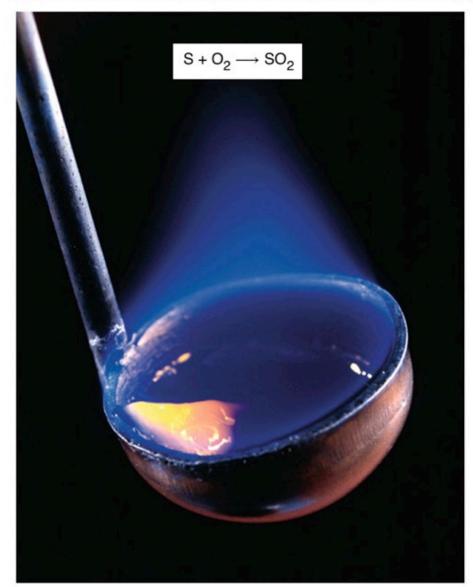
ARIS 09. 4 KM04+ 64504 -> 2 K2504 + 4 Muso4 + 64,0 + 502 7.29g KMMO4 + 10.32g HoSOK. How much XS reachant is left over? 3-53 Hour start wate) H, SOu KMnO4 10.329 Hzson 2+H= 2.016 1-5 = 32.07 usd-4 6.79 H.Sa. 4+0 = 64.00 4.0 = 64.00 98.09 158.04 6.792 9 kmo4 - 9 H2SO4 7.29 KHOW | 1 mol KM now | 6 mol Hazon 98.09 Hazon 158.049 KMLOU 4 mol KMLOY 1 mil Hosov 9 H2SOU - 9 KMnO4 10-325 H2504 1 mol H250+ /4 mol KMO4/158-04-3 KMnO4 98.009 H2504 16 mol H2504 / I mol KHno4 11.08g KMnOx



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$$0x # = 0x. shilt
 $0.0 = 0.0$$$

Concentration of Solutions.

ex! 0.26 mol 450, in 0.73 L

Molor conc. of
$$H_8SO_4 = 0.36 M$$

molority " " = 0.36 M
 $[H_2SO_4] = 0.36 M$

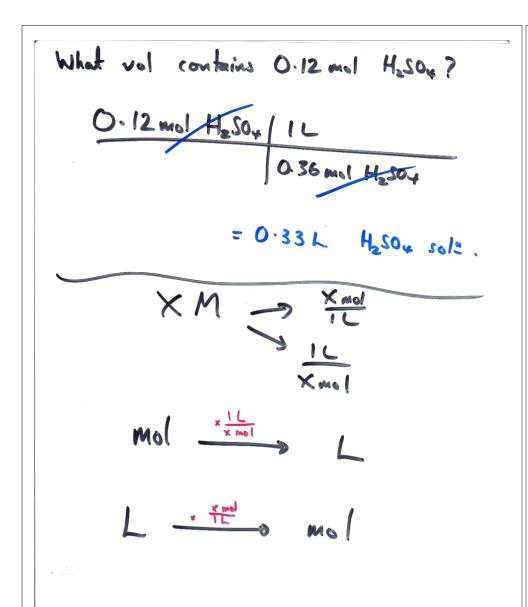
We can use molonity as a Conversion factor!

ex! 0.36M H=204



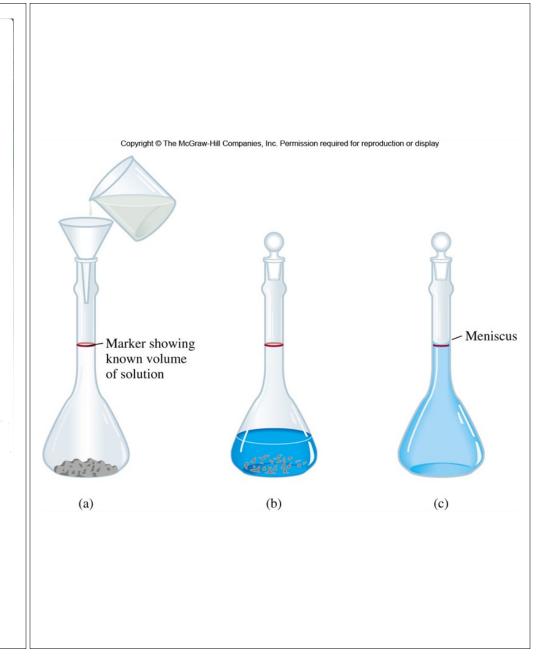
0.36 mol H350x 1c 00x 0.36 mol H250x

CX: 2.5L of 0.36M H250+ contains ? mol H2504



```
are there in 15.2 m2 of a
0.131M My (12 mg) soly?
 0.131M Mgaz > 0.131mol Mgaz
                  0.131 mol Mag,
        1000mL=1L // 1mL=10-3L
15.2 pl 1 / 0.131 mol Mgaz 1
           = 0.00199 mol Mgaz
       = 1.99 × 10-3 mol Mage
          = 1.99 mmol Mg C/2
```

ex: 31.5g CH20 was dissolved in enough H20, so that find volume was 250.0 m.L. Q What is [CH20]? Q. How many not CHO are in 15.0ml [CH20] = #mol CH20 = # L. O.2500L = 0.2500 L 017;5mL = 0.0175L 31.59 CH20 1 mol CH20 1xC = 12.01 30.039 CH20 = 1.05 mol CH20 -



= 0.0630 mol CH20

DILUTING SOLES

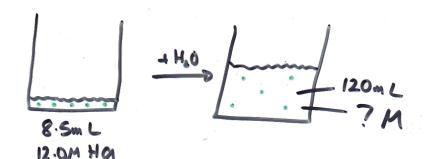
"Stock Sol" = Concentrated

- Dilute by adding water

ex: Hydrochloric acid: HClay

12.0M HCl

ex: We take 8.5 mL of stock Hall-om and add Hao so that final volume is 120 mL. What is [Ha]?



By adding H2O, there is no change in # mol HCA

