

Name: *Key*

Conversions are awesome Handout:

- 1) 40 g Ca = 6.02×10^{23} atoms Ca
- 2) 25 atoms C = 4.98×10^{-22} g C
- 3) 1005 g O = 3.78×10^{25} atoms O
- 4) 56 g F = 1.77×10^{24} atoms F
- 5) 85 mol Cl = ~~85~~ g Cl *2975*
- 6) 75 g He = *18.75* mol He
- 7) 7.04×10^{34} atoms Na = 2.69×10^{12} g Na
- 8) 25 g Mg = ~~18.75~~ atoms Mg 6.27×10^{23}
- 9) 14 g N = 6.02×10^{23} atoms N
- 10) 3.55×10^{19} atoms Ar = 5.9×10^{-5} mol Ar
- 11) 45 g H₂O = *2.5* mol H₂O
- 12) 55 g NaCl = 5.7×10^{23} formula units of NaCl
- 13) 805 g H₂SO₄ = *8.21* mol H₂SO₄
- 14) 4005 molecules H₂O = 1.2×10^{-19} g H₂O
- 15) 6.02×10^{23} atoms Hg = *202* g Hg
- 16) 250 g Mn = _____ atoms Mn
- 17) 7×10^9 atoms Cu = _____ g Cu
- 18) 8 mol P = *241* g P
- 19) 5.9×10^{85} atoms I = 9.8×10^{61} mol I
- 20) 32 g S = *1* mol S
- 21) 250 g H₂SO₄ = *2.55* mol H₂SO₄
- 22) 91.9 grams NH₄IO₃ = _____ formula units
- 23) 7.74×10^{26} formula units Al₂O₃ = _____ moles
- 24) 0.638 mole Ba(CN)₂ = _____ g
- 25) 86.2 grams C₂H₄ = _____ molecules
- 26) 44.3 g Pb(ClO₄)₂ = _____ formula units
- 27) 8 moles NaCl = _____ g