

MOLE CONVERSION PRACTICE #1
(MOLES to R.P. & GRAMS)

- Show all work. Circle all answers.
- Show units and watch sig.figs.
- When applicable, specify the type of representative particle (r.p.) used.

How many grams are in 1 mole of...

- 1) Br₂
- 2) CdO
- 3) CaSO₄
- 4) Al₂(SiO₃)₃

Specify which type of r.p. applies: (no calculations needed)

- 5) Ne
- 6) H₂SO₄
- 7) O₂
- 8) SrCl₂
- 9) Ca²⁺

- 10) Convert 0.4190 mol OF₂ to particles OF₂.
- 11) Convert 5.0×10^{27} r.p. Cu to mol Cu.
- 12) Convert 0.28870 mol Ba(NO₃)₂ to g Ba(NO₃)₂.
- 13) How many moles of CoS are in 11.965 grams of CoS?
- 14) How many grams of Zr₃P₂ are in 4.6×10^{20} r.p. of Zr₃P₂? (*HINT: two steps*)