

Mole Conversions

Name: _____

Perform the following mole conversions (show set up with unit factors):

1) 42 g of KOH ----> moles

6) 0.0820 moles H₂O -----> grams

2) 1.85 moles LiBr -----> grams

7) 45.0 g F₂ -----> liters (at STP)3) 250. liters CO₂ (at STP) -----> moles8) 98.0 g KNO₃ -----> moles4) 0.0495 moles Cl₂ -----> liters (at STP)9) 5.36 x 10²³ atoms Cu -----> moles5) 1.36 x 10²⁵ atoms Ag -----> moles10) 3.84 grams H₂O -----> molecules

Answers:

1) 0.75 mol

3) 11.2 mol

5) 22.6 mol

7) 26.5 L

9) 0.890 mol