

5F Convert 48.2 g Na to mol Na

problem type unit label unit label
 (start) → (final)
 X [mass A] → [mol A]

48.2 g Na	1 mol Na
	22.99 g Na

= 2.10 mol Na

mass A → mol A

(start) g A	1 mol A
	(MM) g A
	= (final) mol A

MM = Molar Mass
 MM_{Na} = 22.99 g/mol

5F Convert 3.29 mol Pb to mass Pb

problem type unit label unit label
 (start) → (final)
 X [mol A] → [mass A]

3.29 mol Pb	207.2 g Pb
	1 mol Pb

= 681.69 g Pb

mol A → mass A

(start) mol A	(MM) g A
	1 mol A
	= (final) g A

MM = Molar Mass
 MM_{Pb} = 207.2 g/mol

Molar Mass Calculations with Molar Mass Conversions

<u>Cr₂O₃</u>		
Cr	2	52.00 g/mol
O	3	16.00 g/mol
Cr ₂ O ₃	152.00 <u>g/mol</u>	

Convert 83.6g Cr₂O₃ to mol Cr₂O₃
start final

83.6g Cr ₂ O ₃	1 mol Cr ₂ O ₃
152.00g Cr ₂ O ₃	

= 0.55 mol Cr₂O₃