PAGE 5

1a) Li = 7
Cl = 35.5
1 mole of LiCl = 42.5 g

1b) .5 mole LiCl weighs = .5 × (42.5g) = 21.25g

1c) 2 moles LiCl weighs = 2 × (42.5g) = 85g

2a) N = 14
4 H = 4
Cl = 35.5
1 mole of NH_4Cl = 53.5g

2b) .15 mole of NH_4Cl weighs = .15 × (53.5g) = 8.025g

2c) 100 millimoles of NH_4Cl weighs = 100 × (53.5mg) = 5,350mg
= 5.35g

3a) 6 C = 72
12 H = 12
6 O = 96
1 mole of $C_6H_{12}O_6$ = 180g

3b) .3 mole of $C_6H_{12}O_6$ weighs = .3 × (180g) = 54g

3c) 5 millimoles of $C_6H_{12}O_6$ weighs = 5 × (180mg) = 900mg
= .9g