Homework

$V_i = ?$
$C_i = 4.00\,M$
$V_F = 250.0\,mL$
$C_F = 0.760\,M$

$V_i < V_F$
$C_i > C_F$

$V_i C_i = V_F C_F$

$V_i(4.00\,M) = (250.0\,mL)(0.760\,M)$

$V_i = \dfrac{(250.\,mL)(0.760\,M)}{4.00\,M}$

$V_i = 47.5\,mL$

(21) $V_i = ?$
$C_i = 2.00\,M$
$V_F = 100.0\,mL$
$C_F = 0.150\,M$

$V_i C_i = V_F C_F$

$V_i(2.00\,M) = (100.0\,mL)(0.150\,M)$

$V_i = \dfrac{(100.0\,mL)(0.150\,M)}{(2.00\,M)}$

$V_i = 7.50\,mL$

Dilution Worksheet

1) 0.20 M

2) 0.16 M

3) 0.68 M

4) 0.080 M

5) 62.5 mL

6) 31 mL

7) 6.3 mL

8) 50. mL

9) 100. mL

10) 100. mL

Solutions Test

- Net Ionic Equations
- Solubility
- Concentration
- Dilutions

p. 347 #53-55

p. 499 #42, 44, 45, 48, 51-55