PSC-436 Quiz #7

Name:

Date:

You want to spray a house with a solution of bleach to kill mold. You
have a 15-L sprayer and you want to fill it to capacity.
The concentration on the 950-mL bottle of bleach is 18 mol/L.
To kill the mold the bleach must be at a concentration of 0.75 mol/L.

How much undiluted bleach must you pour into the
sprayer?

Your answer must include all calculations and clearly
show all the units of measure and formulas used.

Before   After (Make)

$$C_1 = 18M \qquad C_2 = 0.75$$

$$V_1 = ? \qquad \rightarrow V_2 = 15\,L$$

① $\quad C_1 V_1 = C_2 V_2$

$$V_1 = \frac{C_2 V_2}{C_1} = \frac{(0.75\,L)(15\,L)}{18\,M}$$

$$V_1 = 0.625\,L$$

DoD Indicator Worksheet
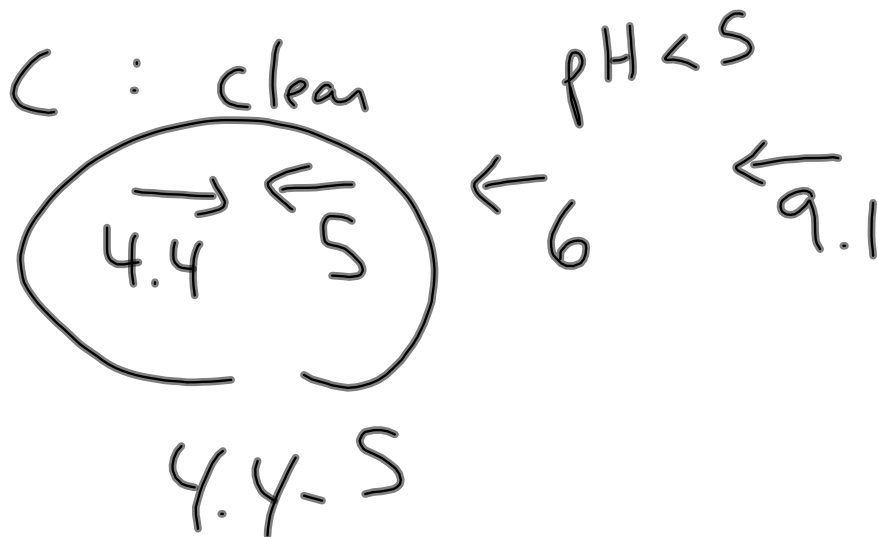 ② Rev Booklet (white): 16's
  ③ Pretest: #24

①

A : yellow   pH < 9.1

B :   "   pH < 6

D :   "   pH > 4.4

C : clean   pH < 5

4.4 → ← 5) ← 6   ← 9.1

4.4 - 5

③

Indicator D : yellow $\underline{pH < 10.1}$

Indicator A : yellow $\underline{pH > 6.2}$

Indicator C : yellow $\underline{pH < 7.6}$

Indicator B : yellow $\underline{pH > 7}$

pH : $\underline{7 - 7.6}$

4. A : violet : _____