## **Solutions Pre Quiz**

1. Convert the following units to ppm.

44 g/L	2 %	150 mg/L	
449 = X 1000ml 1000000ml (44000PPM)	20 000 PM	(150 PPM)	

2. Put the following concentrations in order from weakest to strongest.

A- 5%	B- 450 g/L	C- 0.003 ppm	D- 15 mg/L
$\frac{5}{100} = \frac{\lambda}{1000 \cos 000}$ $\frac{50 \cos \theta \cos \theta}{\cos \theta}$	450 = X 1000 000 450 000 RM	· OOS Pem	15PPM

Order C > D > A > B

3. You test the quality of drinking water in your house by taking 330 mL sample and you find it contains 900 mg of contaminant. What is the concentration of the contaminant in

330mL 700mL (0.27%)

4. Different rivers are being tested for contaminants that are found in the water. The contaminant's lethal dose is 5.5 %. Below is a table that has the contaminant level in 2 different rivers.

	Contaminant	
River 1	0.0007 ppm	
River 2	0.45 g/L	

Which of the following statements is true?

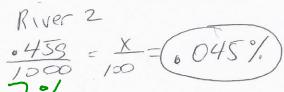
Only river 1 is contaminated

B) Only river 2 is contaminated

5.5 lithol.

C) Neither rivers are contaminated D) Both rivers are contaminated

River 1 00007 = x - 100



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	Chlorine's lethal								
V+-	Iron's lethal does								
You te			minants and find the following res	suits:					
1	Contamin	ant results							
		Chlorine	Iron						
	Aquarium 1	0.000015 %	0.003 %						
	Aquarium 2	0.002 g/L	0.4 mg/L						
Determine if	Determine if either aquarium has too much contaminant.								
Aquarium 1 chlorine work		Aquarium 1 iron work							
0,000015 X		100 1000 000							
100 1000000		100 1000 000							
,		5-74- (1)							
Answer O. 15 Plm		Answer_30fpM							
Circle: Lethal or not lethal		Circle: Lethal or not le	thal						
Aquarium 2chlorine work		Aquarium 2 iron work							
.002 0	×								
(002)	= X /00000		11000						
1000	100000		o4 PPM						
Answer	Zflm		Answer_ • 4PM						
Circle: Lethal or not lethal		Circle: Lethal or not lethal							

5. You dissolve 75 mg in 55 L of water. What is the concentration in ppm?

6. You realize that your goldfish have been dying very quickly. You decide to see if 2

different fish aquariums you have at home have too much of certain contaminants. You

C) 13 640 ppm

D) 1 363636 ppm

B) 1 364 ppm

075 X 55000 1090000 1.48M

(A) 1.4 ppm