



Fun Brain Teasers for Pool Guys

1

1. The unit of measure for chlorine, TA, TDS, calcium and such in the pool is PPM (Parts Per Million). What exactly is Parts Per Million?
-

2. What is the unit of measure for pH?
-

3. If you add one gallon of liquid chlorine (12% Grade) into a 120,000 gallon pool, how much chlorine did you add as measured in ppm?
-

4. The Trichlor compound is just simply chlorine and the cyanuric acid molecule. If you add 10 ppm of chlorine to a pool using Trichlor, about how much cyanuric acid was added as measured in ppm?
-

5. The Sodium Dichlor compound is simply chlorine, a bit of sodium and the cyanuric acid molecule. If you add 10 ppm of chlorine to a pool using Dichlor, about how much cyanuric acid was added as measured in ppm?
-

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1. About how many 3" Trichlor tabs does it take to equal the chlorine in one gallon of liquid chlorine (12% grade)?
-

2. About how many pounds of DiChlor (56% Aavailable Chlorine Content) does it take to equal the chlorine in one gallon of liquid chlorine (12% grade)?
-

3. What is the difference between Free Aavailable Chlorine and Combined Chlorine in the water?
-

4. At a pH of 7.5, about how much (percentage) of the Free Aavailable Chlorine in the water is in the killing form (HOCl)?
-

5. What is Breakpoint Chlorination?
-

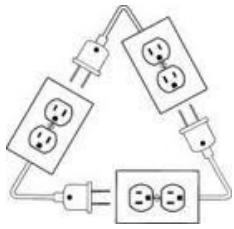
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1. What is the difference between a Circuit Breaker and a Ground Fault Circuit Interrupter (GFCI) ?
-

2. What is the difference between GROUNDING an electrical circuit or piece of equipment and BONDING?
-

3. What National code sets the guidelines for electrical safety around pools and spas?
-

4. According to the National Electrical Code (NEC 70, Article 680), what is the minimum distance that an electrical outlet can be from the side of the pool?
-

5. The Occupational Safety and Health Administration (OSHA) regulation 29 CFR 1910.147 sets the standard for LOTO. What does LOTO stand for?
-

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1. What does the term “Water Turnover” mean? (sometimes called “Turnover Rate”)
-

2. What is the requirement of most local Health Departments for the Turnover Rate for pools? ...and for spas?
-

3. What does the term water “Flow Rate” mean?
-

4. How can you calculate the number of gallons of water (Water Volume) in a swimming pool?
-

5. What is the relationship between Turnover Rate, Flow Rate and Water Volume?
-

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1. What is the difference between the water Flow Rate and the water Velocity?

2. What does the term “Filter Media Rate” mean?

3. What is the Filter Media Rate for a D.E. filter? ...and for a Cartridge filter?

4. A D.E. filter will remove the smallest particle size of any other filter type. A D.E filter will filter down to what size particle?

5. A cartridge filter will filter down to what size particle?

6. What determines the appropriate filter size for a swimming pool?

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