Water Department Plant Operator Math Evaluation

Name: _____ Date: _____

1. Solve the following:

   a. (90)(3)

   b. $\frac{(3)(4)}{2} =$

   c. $\frac{1{,}000{,}000}{17.5} =$

   d. $\frac{(12{,}000)(500)(60)(24)}{(4)(1{,}000)(1{,}000)(454)} =$

2. What is the surface area of rectangular tank 50 feet long and 12 feet wide?

3. What is the volume in gallons of a tank that is 20 feet in diameter and 30 feet deep? (0.785 x D^2x Depth x 7.48)

4. Convert 50 gallons per minute to gallons per day to the nearest hundredth. (1 day= 1440 minutes)

5. Determine the amount in lbs of 100 gallons of liquid chlorine fed to disinfect water before entering the distribution system. (1.0425 lbs / per gallon of chlorine)

6. Convert 144,000 in into feet

7. What is the area of a circle with a diameter of 20 inches. ($A = \pi r^2$)

8. Convert 50°F to °C ((32°**F** − 32) × 5/9 = 0°**C**)

9. Convert 10°C to °F

10. Convert 100 km to miles. (km * 0.62137= miles)