1: What is the flow required if you are irrigating 25,000 square feet, your water window is 6 hours per day, daily peak Et is 0.21 inches and expected efficiency is 75%? What if it was 4.5 acres and the expected water application efficiency was 80% (but still the same peak Et and water window)?

2: What would be the minimum inside diameter of a pipe that will have 89 GPM flowing no more than 5 fps?

3: Using Hazen Williams, what would be the friction loss in 752' of 2" PE with 55 GPM flowing at 4.23 fps?

4: What would be the brake horsepower and the water horsepower of 150 GPM at 82 psi with 50% motor efficiency?

5: What would the precip rate be for 7 rotors on a zone covering 5000 square feet? Each of the heads is has full circle nozzles flowing 9.6 GPM at 70 psi and 50% of the water ends up in the area described.

6: What is the precip rate of a single row of spray heads, 15' radius, 15' apart all full circle at 3.8 GPM?

7: How far can you run a 14 AWG wire if you have 2 solenoids wired together, each 0.45 amps inrush – 0.25 holding, 75 psi, solenoids require 19.8 volts and controller output is 24.5 volts?

8: If a pump is producing 50 psi at 3450 rpm, how much pressure will it produce at 3200 rpm?

9: How many minutes would need to be programed per day for run time if the daily Et was 0.15 and the water application efficiency was 90% on a rotator zone with a precip rate of 0.38 inches per hour? If runoff occurred after 13 minutes, would you need to cycle? If so, how long would the run time be and how many cycles?

10: If your pressure at 50 psi resulted in flow of 14 gpm and the pressure was decreased 12%, what would be the resulting flow?