

Water Height and Pressure Practice Problems

1. A tank of water is filled so that the water depth is 45 ft (13.7 meters). If a pressure gauge was placed on the floor of the tank, what should it read?
 - A. 19.5 psi (134.3 kPa)
 - B. 103.9 psi (1.4 kPa)
 - C. 45 psi (13.7 kPa)
 - D. 6.0 psi (128 kPa)

2. An elevated water tank provides a water height of 250 feet (76.3 meters). What is the pressure at the ground level of the tank?
 - A. 116 psi (723 kPa)
 - B. 577.4 psi (7.8 kPa)
 - C. 108.3 psi (747.7 kPa)
 - D. 250 psi (76.3 kPa)

3. A retention basin is full of water to 20 feet (6.1 meters) deep. What is the pressure at the bottom of the basin?
 - A. 8.7 psi (59.8 kPa)
 - B. 20 psi (6.1 kPa)
 - C. 46.2 psi (0.6 kPa)
 - D. 4 psi (68 kPa)