

Challenge Problem #35

Challenge problems are worth 30 points each. 6 points will be earned for the correct answer. This includes using **appropriate units**. 12 points will be earned by **showing the mathematical process** used in getting the answer. The last 12 points will be earned by **writing a complete explanation** of the reasoning used to solve the problem. Good luck.

A rectangular water tank is 5 feet long, 3 feet wide, and 4 feet deep. The tank is 40% full initially. How many gallons of water must be added to fill the tank? A cubic foot is approximately 7.5 gallons.