

### Challenge Problem #38

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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 cylindrical water tank is 30% full. If 10 gallons of water are added, the tank will be half full. What is the volume of the tank?