IB Math 3: Exit Slip Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_

A tank contains 10 lb of salt dissolved in 30 gal of water. Suppose 2 gal of brine containing 1 lb of dissolved salt per gallon runs into the tank every minutes and that the mixture (kept uniform by stirring) runs out of the tank at the rate of 1.5 gal/ min. How long does it take (to nearest second) for the tank to contain 15 lb of salt?

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