Perform the following calculations.

1) Calculate the volume (in mL ) of 1.50 M NaCl solution required to provide 0.500 moles of NaCl .
2) Calculate the number of moles of KCl present in 125 mL of 0.250 M KCl solution.

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3) Calculate the mass of 0.777 moles of $\mathrm{KNO}_{3}$.
4) Calculate the number of moles present in 75.0 kg of $\mathrm{NaNO}_{3}$.

