Calculate the number of mL of 2.00 M HNO_3 solution required to react with 216 of Ag.

Solution.

n(Ag) = 216/108 = 2 moles

$Ag + 2HNO_3 = AgNO_3 + NO_2 + H_2O$

N (HNO_3) = 4 moles

V (HNO_3) = 4/2 = 2 L = 2000 mL

Answer. 2000 mL.