A gas is produced when 10.0 g of zinc is placed in 0.50 L of $0.20 \text{ mol } \text{L}^{-1}$ nitric acid.

Calculate the volume of gas produced at 25°C and $100\,\text{kPa}$. Include a balanced chemical equation in your answer.

2Zn()+2HNO369) ->	220NO3 (99) + H2(9)
10g 0-50L 0-20	220NO3 (99) + Hz(g)
mole = 65-41	molemus = 05x0.2
> ⁰ 1153	=0.1
MON J = 0753 x 127.42	j. Volume z mole k MV
2 19.5	= 0.153 x 24.79
mole znnicz = 0.153	= 3.79
2 O1153	= 0.1 Volume = mole x MV = 0.153 x 24.79

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