et A: Titration- Calculation of moles Objective: To to relation	est your understanding of mole on in titration (neutralization) problems
For each titration problem, show set and calculate the unknown. Use the space to right to write equation, show set up and solve.	
How many moles of KOH are needed to completely neutralize 0.5 L of 1.0 M HCl solution?	.5
2. How many moles of HCl is needed to completely neutralize 1.5 L of a 0.3 M NaOH solution	.45
3. How many moles of sodium hydroxide is needed to neutralize 0.3 L of 0.1 M nitric acid solution?	. 63
 How many moles of NaOH is needed to completely neutralize 0.1 L of 2 M H₂SO₄ solution. 	4.0
5. What is the number of moles of H ₂ SO ₄ that will react of neutralize 0.5 L of a 6 M KOH solution?	1,5
to solve_	est your ability to use titration equation for unknown in neutralization problem
For each titration problem, show set up and solve for the unknown.	
Use the space to the right to write equation, show set up and solve for	or the unknown.
6. How many milliliters of 2.5 M HCl are required to exactly neutralize 100 mL of 0.1 M NaOH solution?	42
7. How many milliliters of 3 M KOH solution is required to exactly neutralize 100 mL of 1.5 M HNO ₃ solution?	501
3. What is the molarity of 60 ml HNO₃ solution if it takes 180 ml of 0.2 M KOH to neutralize it?	.60
9. What is the molarity of 20 mL NaOH solution that is neutralized by a 5 ml of 0.1 M HCl solution	,025
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