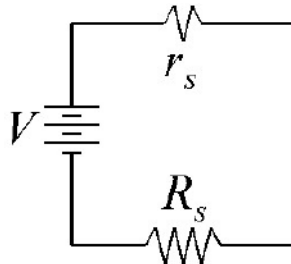


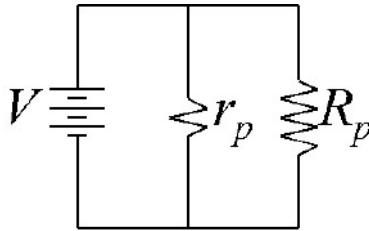
NAME _____ DATE _____

Scenario

The diagram shows four resistors R_p , R_s , r_p , and r_s that are connected to identical ideal batteries. The resistances are such that $R_p = R_s > r_p = r_s$.



Series Circuit



Parallel Circuit

PART A: Rank the currents passing through each resistor from greatest to least. (Include $<$, $>$, or $=$ to clarify your ranking.)

Greatest Current

Least Current

PART B: Rank the potential differences across each resistor from greatest to least. (Include $<$, $>$, or $=$ to clarify your ranking.)

Greatest Potential

Least Potential

PART C: In a clear, coherent paragraph-length response, explain the reasoning for your rankings. Be sure to cite appropriate physical principles.

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

9.E Kirchhoff's Loop Rule and Ohm's Law
