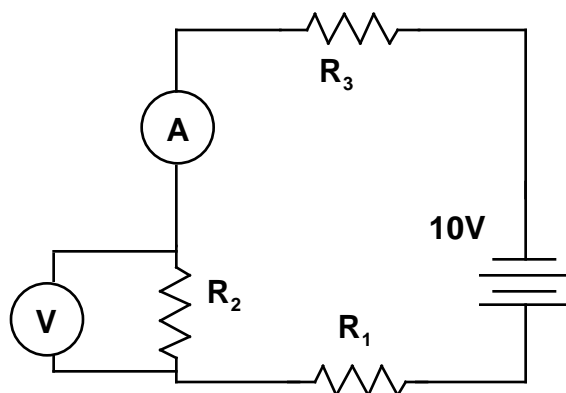


Simple Series Circuit with Various Resistors—Voltmeter ¹⁷⁸

In the circuit below, there are seven possible combinations of R_1 , R_2 , and R_3 . Rank the combinations, on the basis of the reading on the voltmeter, from highest to lowest.



	A	B	C	D	E	F	G
R_1	1	2	3	2	4	1	0
R_2	2	1	2	2	1	1	5
R_3	3	3	1	2	1	4	1

Highest 1_____ 2_____ 3_____ 4_____ 5_____ 6_____ 7_____ Lowest

Or, all of the combinations have the same voltage. _____

Please carefully explain your reasoning.

How sure were you of your ranking? (circle one)

Basically Guessed

Sure

Very Sure

1 2 3 4 5 6 7 8 9 10

¹⁷⁸ P. D'Alessandris, J. Taylor, R. Krupp, D. Maloney