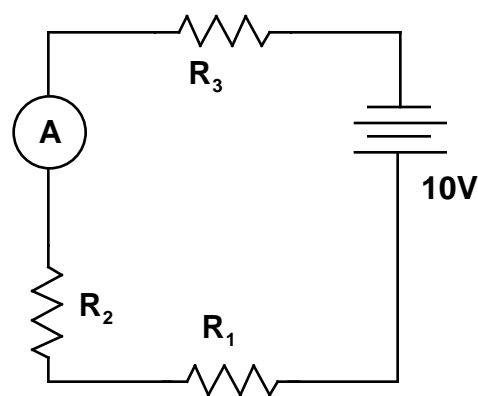


Simple Series Circuit with Various Resistors—Current I <sup>177</sup>

In the circuit below, there are seven possible combinations of  $R_1$ ,  $R_2$ , and  $R_3$ . Rank the combinations, in terms of the current measured by the ammeter, 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 current. \_\_\_\_\_

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

<sup>177</sup> P. D’Alessandris, J. Taylor, R. Krupp  
Ranking Task Exercises in Physics