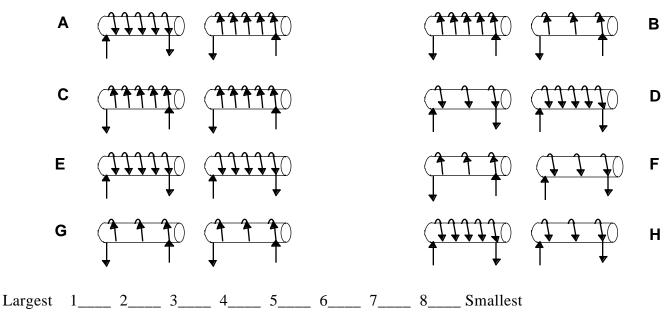
Pairs of Equal Current Electromagnets—Magnetic Field Between¹⁸⁷

Eight pairs of electromagnets are shown below. The same current flows in each electromagnet. The pairs are separated by the same distance, and they have the same length and diameter. Carefully observe the orientation of the coil and direction of current flow in the electromagnets.

Rank the magnitudes of the magnetic fields at the midpoint between the electromagnets from the largest to the smallest.



Or, the magnitudes of the magnetic field are all the same._____

Please carefully explain your reasoning.

How sure were you of your ranking? (circle one)									
Basic	ally Guess	ed	Sure				Very Sure		
1	2	3	4	5	6	7	8	9	10
¹⁸⁷ B. I	Emerson, C. I	Hieggelke							
Ranking Task Exercises in Physics			211			Electricity and Magnetism			