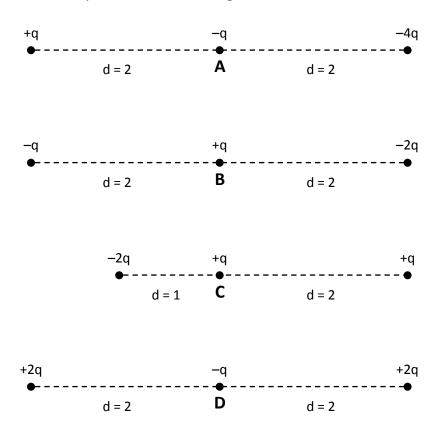
Astronomy Ranking Task: Coulomb's Law

Exercise #2

Description: The figures below (A - D) each show a central charge along with two other charges in a line, one on the left of the central charge an one on the right. The amounts of charge are expressed in arbitrary units (q). The distances of the left and right charges from their respective center charges (d) are also expressed in arbitrary units. All of the charges have the same mass.



A. Ranking instructions: Rank the strengths of the net electrical forces exerted on the central charges of each pair.
Ranking Order: Greatest 1 2 3 4 Least
Or, the strength of the net electrical force exerted on each central charge is the same (indicate with a check mark)
Carefully explain your reasoning for ranking this way:

B. Ranking instructions: Using	Newton's:	second la	w, rank	the accelerat	ions that the	central charge:
experience as a result of the no	et electrica	l force ex	erted or	each.		
Ranking Order: Greatest 1	2	3	_ 4	Least		
Or, each central charge experie	ences the s	ame acce	leration	(indica	te with a che	eck mark)
Carefully explain your reasoni	ng for rank	ing this w	ay:			
_	_					e central charg
of each pair from greatest tow	_			ards the right	.	e central charg
C. Ranking instructions: Rank to of each pair from greatest tow Greatest Ranking Order: Leftward, 1	ards the le	ft to grea	test tow	ards the right Greatest	:. :	e central charg
of each pair <i>from greatest tow</i> Greatest	ards the le	ft to grea	test tow	ards the right Greatest	:. :	e central charg
of each pair from greatest tow	ards the le	ft to grea	test tow 4	ards the right Greatest Rightwa	t. trd	
of each pair <i>from greatest tow</i> Greatest Ranking Order: Leftward 1 Or, all central charges experier	ards the le	ft to great 3	test tow 4 ces	ards the right Greatest Rightwai (indicate wi	th a check ma	ark)
of each pair <i>from greatest tow</i> Greatest Ranking Order: Leftward 1	ards the le	ft to great 3	test tow 4 ces	ards the right Greatest Rightwai (indicate wi	th a check ma	ark)
of each pair <i>from greatest tow</i> Greatest Ranking Order: Leftward 1 Or, all central charges experier Or, all central charges experier	ards the legands the legands are set left are net righ	ft to great 3 ward force atward fo	test tow 4 ces rces	ards the right Greatest Rightwai (indicate wi	th a check ma	ark)
of each pair from greatest tow Greatest Ranking Order: Leftward 1 Or, all central charges experier	ards the legands the legands are set left are net righ	ft to great 3 ward force atward fo	test tow 4 ces rces	ards the right Greatest Rightwai (indicate wi	th a check ma	ark)