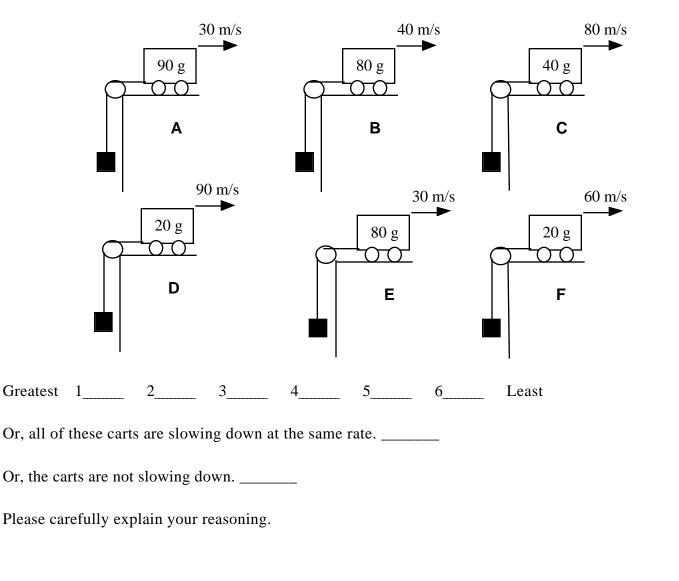
Carts Moving Along Horizontal Surface—Slowing Down ¹⁶

The six figures below show carts that are moving along horizontal surfaces at various speeds. The carts are the same size and shape but carry different loads so their masses differ. All of the carts have a string attached, which passes over a pulley and is tied to a metal block that is hanging free. All of the metal blocks are identical. As the carts move to the right they pull the blocks up toward the horizontal surface, which is the top of the table.

Rank these situations, from greatest to least, on the basis of which cart is slowing down most quickly. That is, put first the situation where the cart is slowing down the quickest, and put last the situation where the cart is slowing down at the slowest rate.



How s	sure were y	ou of your	ranking?	(circle one)						
Basic	ally Guess	sed		Sure				Very Sure		
1	2	3	4	5	6	7	8	9	10	
			_							
¹⁶ D. M	laloney									