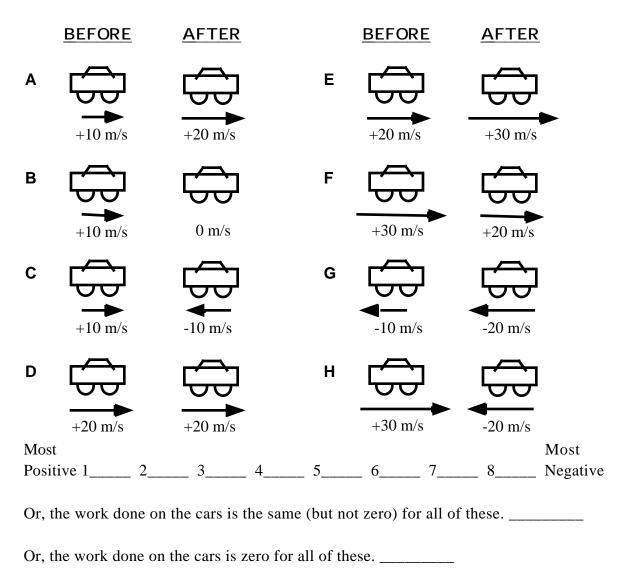
Cars—Work Done in Change of Velocity 59

The eight situations below show *before* and *after* "snapshots" of a car's velocity. Rank these situations, in terms of work done on the car, from most positive to most negative, to create these changes in velocity for the same distance traveled. All cars have the same mass. Negative numbers, if any, rank lower than positive ones (-20 m/s < -10 m/s < 0< 5).



Or, it is not possible to determine the work done on the cars for all these cases. ______ Please carefully explain your reasoning.

How su	ure were y	ou of your	ranking?	(circle one)						
Basically Guessed				Sure				Very Sure		
1	2	3	4	5	6	7	8	9	10	

⁵⁹ J. Cole, D. Maloney Physics Ranking Tasks

Mechanics