## Person in an Elevator Moving Downward–Scale Weight <sup>37</sup>

The figures below depict situations where a person is standing on a scale in eight identical elevators. Each person weighs 600 N when the elevators are stationary. Each elevator now moves (accelerates) according to the specified arrow that is drawn next to it. In all cases where the elevator is moving, it is moving <u>downward</u>.

Rank the figures, from greatest to least, on the basis of the *scale weight* of each person as registered on each scale. (Use  $g = 9.8 \text{ m/s}^2$ .)



How	sure were	e you of y	our ranki	ng? (circ	le one)				
Basically Guessed				Sure			Very Sure		
1	2	3	4	5	6	7	8	9	10

Physics Ranking Tasks