1. The first table, below, is a timeline detailing a parachuter's descent from an airplane. Use the timeline and your knowledge of physics to complete the second table. You will only be graded on your answers in the white cells.

Time	Event				
0s	Parachuter steps out of plane				
	Parachuter reaches a first terminal				
20 s	velocity of 58m/s				
	Parachuter pulls chute cord. Chute				
75 s	deploys.				
	Parachuter reaches a second				
80s	terminal velocity of 4m/s				
700s	Parachuter lands				

Don't forget proper units!

			Air			
			Resistance	F _{net}		
	Parachuter	Parachuter	(plus	(plus	Acceleration	
Time	Mass	Weight	direction)	direction)	(direction)	Speed
0s	50 kg					
			400 N			
16s			Upward			50m/s
72 s						
			900N			
76s			Upward			41m/s
500s						

10. A 6kg box is sliding with a velocity of 5m/s. The force of friction acting on the block. The block's acceleration is 3m/s². If a person is pushing the block with a force of 30N, what is the force of friction that is acting on the box? **Draw the box and the ground, and all of the forces that are acting on the box. Use the correct names of the forces.**

11. A student has a mass of 80kg. He is standing on a bathroom scale in an elevator, and the scale reads 560N. What is the student's acceleration? **Draw the student, the elevator, and the scale, and all of the forces that are acting on the student. Use the correct names of the forces.**