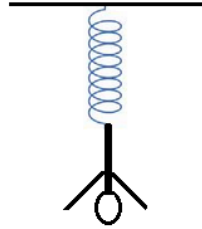


Spring Ranking Task

A bungee cord can be modeled as if it were a spring. There are six people, each of different mass, who are hanging upside down from their bungee cords after completing a jump. Each cord has a natural length, x_0 , its length without any stretching or compressing, and a current length, x , its length after being compressed or stretched. Additionally, each bungee cord has a different stiffness, k . The force listed below, F , is the force of the bungee cord on the person.



Person	F	x_0	X
A	500 N	8 m	12 m
B	600 N	7 m	10 m
C	1000 N	9 m	13 m
D	800 N	10 m	15 m
E	800 N	15 m	25 m
F	500 N	12 m	18 m

A. Rank the values of the spring constant, k , from greatest to least:

Greatest 1. _____ 2. _____ 3. _____ 4. _____ 5. _____ 6. _____ Least

Justify your ranking:

B. Rank the mass of each person, m , from most massive to least massive:

Most 1. _____ 2. _____ 3. _____ 4. _____ 5. _____ 6. _____ Least

Justify your ranking: