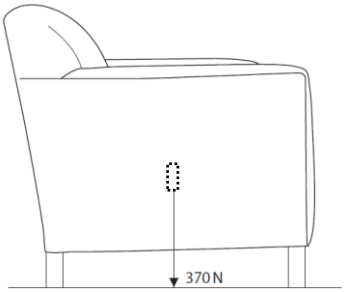
Question number	Answer	Notes	Marks
6 a	X drawn at the base of the weight arrow within area shown by the dashed box;  		1
b (i)	pressure = force ÷ area;	allow rearrangements and standard symbols e.g. p=F/A	1
(ii)	weight on each foot OR total area found; substitution; evaluation; matching unit; e.g. force on each foot = 92.5 (N) OR total area = 20.8 (cm^2) (pressure =) 92.5 / 5.2 OR 370 / 20.8 (pressure =) 18 N/cm^2	allow 92.5 or 20.8 seen anywhere in working allow any valid unit of pressure if no valid working seen 17.788…, 17.8 allow 10^4 Pa or 10^4 N/m^2 ignored factor of 4 gives 71 N/cm^2 gains 3 marks used 5.2^2 for area gives 3.4 N/cm^2 gains 3 marks used 5.2^2 for area and ignored factor of 4 gives 13.7 N/cm^2 gains 2 marks	4
c	MP1. (cups) increase (surface) area; MP2. force (on floor) remains the same; MP3. (since p=F/A) pressure (on floor) is decreased;	ignore ‘force is more spread out’ / eq	3

Total for question 6 = 9 marks