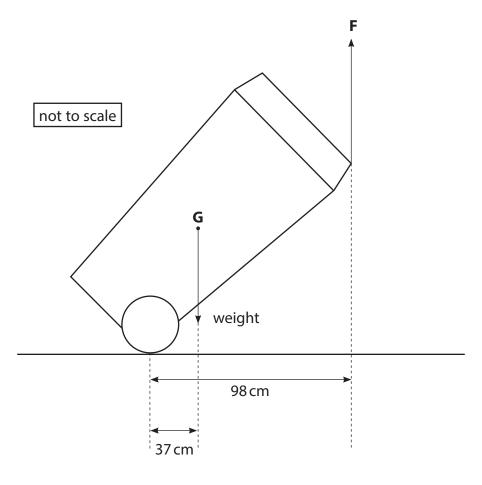
The diagram shows some of the forces acting on a large rubbish bin on wheels.



(a) The weight of the bin acts through point G.

Give the name of point G.

(1)

- (b) The mass of the bin is 23 kg.
 - (i) What is the weight of the bin?

(1)

- B 230kg

(ii) State the principle of mo	ments.	(1)
(iii) A person applies force F	to the bin to keep it stationary.	
Calculate the magnitude	of force F.	(4)
	magnitude of force $F = \dots$	N
(iv) State the magnitude and	direction of the force applied to the p	person by the bin. (2)
	magnitude =	N
	direction =	
	(Total for Ou	estion 3 = 9 marks)