FREE BODY PROBLEM Name		Name
A 1.0kg mass is on a flat, horizontal surface. The mass is being accelerated to the right at 15 m/s <sup>2</sup> . If the coefficient of friction between the mass and the surface is .51, answer the following questions.		
1)	Calculate the <i>force weight</i> that the mass has.	
2)	Since the mass is on a flat, horizontal surface; wh	at must the <i>force normal</i> be?
3)	Calculate the <i>force friction</i> felt by the mass.	
4)	Calculate the <i>net force</i> felt by the mass.	
5)	Using the scale 1cm = 5.0N; draw a free body dia mass. <i>THINK CAREFULLY!</i> Also remember that all	
	object.	forces are drawn from the center of the

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