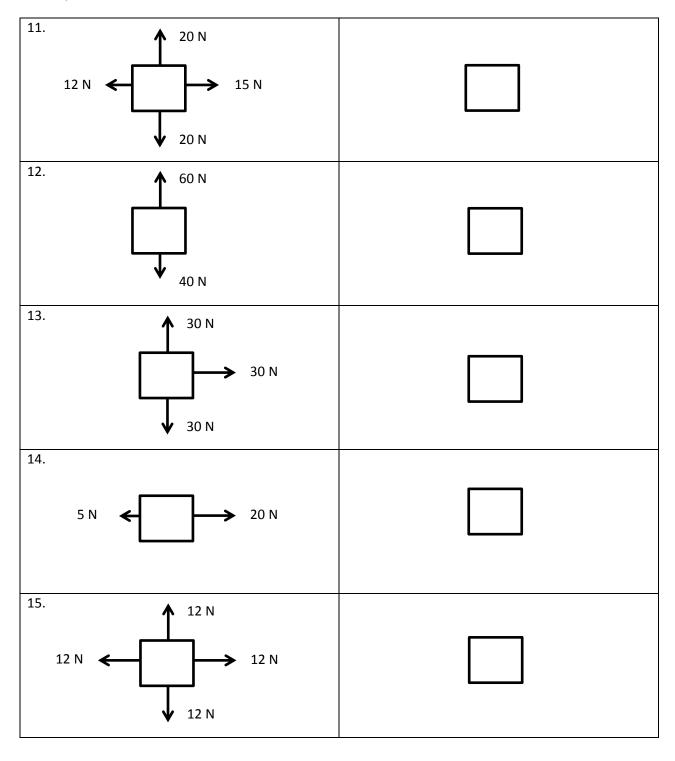
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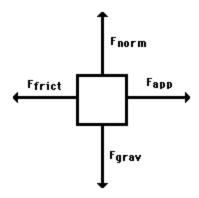
## Newton's 1<sup>st</sup> Law Free Body Diagram Worksheet

In each of the following situations, represent the object with a dot. Draw and label all the forces using standard force symbols as learned in class. P.F.26, P.F.29

<ol> <li>Object lies motionless on a surface.</li> </ol>	Object slides at constant speed along a
	Smooth (frictionless) surface.
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•	
<ol><li>Object slows due to friction (rough surface).</li></ol>	Object slides on a smooth incline.
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F. Eriction on an incline provente elidina	6. An object is supponded from the spiling
Friction on an incline prevents sliding.	An object is suspended from the ceiling.
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<ol><li>An object is suspended from the ceiling.</li></ol>	The object is motionless.
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The object is motionless.	<ol><li>The object is motionless.</li></ol>
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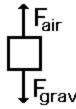
In each of the following situations draw a free body diagram that only represents the net force acting on the object. P.F.25

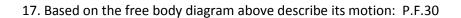




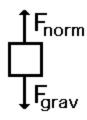
16.	Based	on t	he fr	ee body	diagram	above (	describe	its mo	tion:	P.F.30	

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18. Based on the free body diagram above describe its motion: P.F.30

For each of the following, what are the unknown forces if you know the Net Force on these objects? P.F.30

