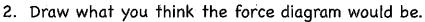
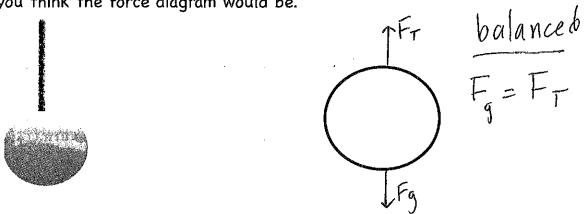
## Force Diagrams 2

We use force diagrams to show all of the <u>external forces</u> acting on an object. The object is isolated from other objects. Let's look at another type of force.

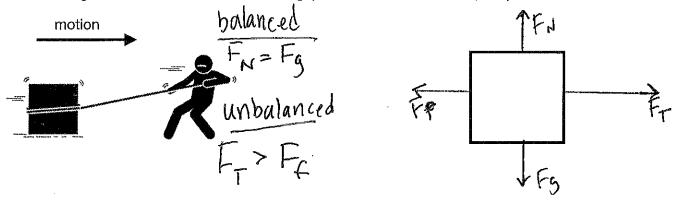
1. A ball is hanging on a string. What are the forces working on the ball?





Force Gravity	Symbol F <sub>g</sub>	The force of gravity is pulling down on the object toward the center of the earth. Always a pull.
Tension	F	The pull force that is transmitted through a string, rope or Similar object
		when it is pulled fight

2. Tension is a pull force. It can also work in a horizontal direction. Draw a force diagram for a box that is being pulled (and moved) by a person.



3. Draw a force diagram for a block that is being pulled to the left with 10 N of force but **not** moving.

