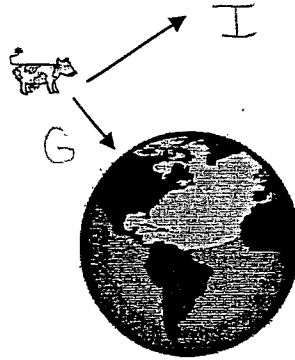


Name: KEY

Hour: _____

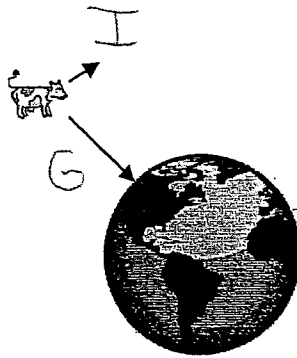
For each Diagram draw the path the cow would take by looking at the 2 forces. Remember the longer the arrow the stronger the force. On the lines provided explain in words what will happen to the cow (make sure you talk about the 2 forces by name).

1.



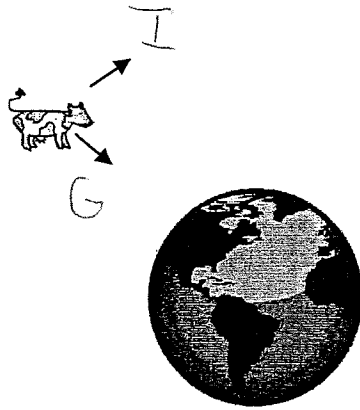
Inertia is stronger than gravity
therefore the cow will fly off into space
on a straight line because the forces
are unbalanced.

2.



Gravity is stronger than inertia
therefore the cow will be pulled back
to Earth because the forces are
unbalanced.

3.



Gravity and inertia are both balanced forces so the rocket will enter an orbit around the planet.

4. What are the 2 forces that keep objects in orbit?

gravity, inertia