A DROP IN THE BUCKET

**Instructions**

* Place the tennis ball in one hand stretched out to your side.
* Have one person record as another runs to drop the ball in the middle bucket.
* Each team member takes a turn, and records their points.
* Add up each member's total after 4 rounds and calculate the group’s mean.

Record your points in the following table:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Team Member** | **Round 1** | **Round 2** | **Round 3** | **Round 4** | **Total** |
|  |  |  |  |  |  |
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**Reflection Questions:**

* How is the inertia of the occupants inside the car related to the inertia of the ball in your hand?
* How does your sketch of the man's motion compare to the motion of the falling ball?
* Are both the man and the ball considered projectiles?
* What effect does gravity, paired with inertia, have on the motion of the man and falling ball?