Exit Slip 2/3/15 Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. **Find th e mass for a 1.3N wood block**
2. **Give the gravitational acceleration of a 2.8kg brick hanging from a spring scale**
3. **If the 2.8kg brick on the table has a gravitational force, and we can calculate acceleration, why is this brick not actually changing velocity?**
4. **A 20-N weight and a 5.0-N weight are dropped simultaneously from the same height. Air resistance is negligible. Compare their accelerations.**
5. The 20 N weight accelerates faster because it is heavier.
6. The 20 N weight accelerates faster because it has more inertia.
7. The 5 N weight accelerates faster because it has a smaller mass.
8. They accelerate at the same rate because they have the same weight to mass ratio.
9. More information is necessary to compare their accelerations.
10. **A baseball is thrown straight upward with an initial velocity of 5 m/s. What is the ball’s acceleration at its highest point?**
11. 0 m/s2
12. 4.9 m/s2, downward
13. 9.8 m/s2, downward
14. 4.9 m/s2, upward
15. 9.8 m/s2, upward

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