

### Forces - Homework 3

(Our Physical World Part 4)

**/10**

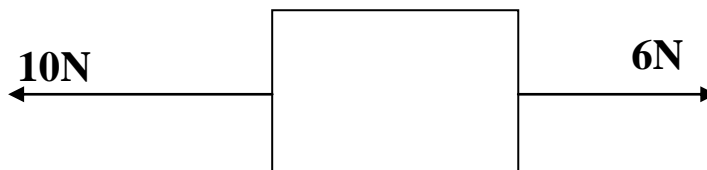
Name: \_\_\_\_\_

Parent/Guardian Signature: \_\_\_\_\_

Due date: \_\_\_\_\_

\_\_\_\_\_

1. What causes friction? \_\_\_\_\_ (1)
2. What are the three effects friction can have on an object?  
\_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_ (3)
3. If you put some oil on a hinge, what affect would this have on the amount of friction? \_\_\_\_\_ (1)
4. (a) The mass of an object is the amount of \_\_\_\_\_ in it. (1)
- (b) Mass is measured in \_\_\_\_\_ (1)
- (c) Weight is the pull of the planet on an object and is measured in \_\_\_\_\_ (1)
5. Look at the following diagram of two forces acting at the same time on a block of wood.



- (a) What is the unbalanced force on the block of wood?  
\_\_\_\_\_ (1)
- (b) In what direction is this unbalanced force?  
\_\_\_\_\_ (1)