

A-Day: due Mon., 10/16 (Assigned 10/12)

B-Day: due Tues., 10/17 (Assigned 10/13)

Forces 1

Help on the notes and on the website.

1. Inertia	A. An action that can causes motion.	Which of Newton's Three Laws Applies?				
2. Mass	B. Force pulling all object toward each other.					
3. Gravity	C. The amount of matter in an object	___ 7. When you put a book on a table the table pushes on the book.				
4. Net force	D. Total of all of the forces on an object.	___ 8. A person is pushed forward into their seatbelt when a car stops.				
5. Force	E. Ability of an object to resist change of motion.	___ 9. A larger car takes more force to move.				
6. Number these from least (1) to most (5) inertia.		___ 10. A person leans on a wall and the wall pushes back.				
A base-ball	A small car	A truck	A feather	A large train	___ 11. A brick sits on a table until you push on it.	

Understanding Net Force	A. Find the net force	B. Which way will it accelerate?	C. Is it at equilibrium?
	12. (Instructions above.)		
	13.		
	14.		

15. A 15 kg object is being pulled to the left by TWO 60 N forces. Another 80 N force is pulling to the right.

- A. Draw the situation
- B. Find the net force
- C. Find the acceleration of the object.

16. An 8 kg object has an acceleration of 2 m/s².

- A. Find the net force.
- B. If a 20 Newton force is pulling to the right, which way will friction pull?
- C. Find the force of friction.

17. Find the weight of a 12 kg object.

18. Find the mass of a 120 N object.

18. Are these at equilibrium or not?

- A. ___ An object at rest
- B. ___ An object with 2 m/s² of acceleration.
- C. ___ A car with cruise control on.
- D. ___ An object with a 2 N force pulling to the right and a 2 N force pulling to the left.