## Force and Newton's Laws

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.		7. When you put a book on a table the table pushes on the book.	
<ul> <li>3. Gravity</li> <li>4. Net force</li> <li>5. Force</li> <li>C. The amount of matter in a D. Total of all of the forces of object.</li> <li>E. Ability of an object to result of matter in a D. Total of all of the forces of object.</li> </ul>		s on an	an 8. A person is pushed forward into their seatbelt when a stops.	
of motion.  6. Number these from least (1) to most (5) inertia.			10. A person leans on a wall and the wall pushes back.	
	small A truck A feather car	A large train	11. A brick sits on a table until	l you push on it.
Understanding Net Force		A. Find the	D. Willen way	C. Is it at equilibrium?
30 N <b>◄</b>	<b>M</b> → 25 N	12. (Instruc	ctions above.)	
6 N				
15 N    15 N    14.				

- 15. A 15 kg object is being pulled to the left by two 60 N forces. Another 80 newton 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/s<sup>2</sup>.
  - 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.