Period:

1.F =			
2. m =	125Kg		
	301/2		

1 v= 29 m/s

5.D= 228 m

6.p = 23 kgm/s

125 kilograms -

23 kgm/s 🗸

3 m/s²

29 meters/sec

228 meters

6 newtons <

1. E Inertia

A. An action that can causes motion.

2. Mass

B. Force pulling all object toward each other.

3. Gravity

The amount of matter in an object

4. P Net force

5. Force

Total of all of the forces on an object.

Ability of an object to resist change of

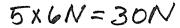
Number these from least (1) to most (5) inertia.

A baseball	A small	A truck	A feather	A large
2	car 3	4	1	train 5

Number these from least (1) to most (5) momentum.

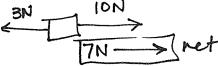
Fast car	Parked	Slow car	Fast	Fast
5	truck l	4	baseball 3 A	feather

A sled is being pulled to the left by 5 dogs, each dog pulling with 6 Newtons of force. Find the net force.



30 N Left

If a person pulls on a cart to the right with a force of 10 N and a second person pulls to the left with a force of 3 N, what is the net force (+ direction) on the cart?



A 2 N and 6 N force pull on an object to the right and a 4 N force pulls to the left a 0.5 kg object. What is the net force on the object?

Which of Newton's Three Laws Applies? Law 1, 2, or 3?

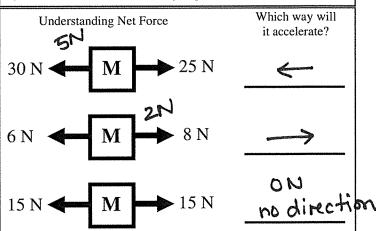
3 When you put a book on a table the table pushes on the book.

A person is pushed forward into their seatbelt when a car stops.

A larger car takes more force to move.

A person leans on a wall and the wall pushes back.

A brick sits on a table until you push on it.



A 20 kg bike accelerates at 10 m/s². With what force was the person pedaling?

If a person is pushing a cart with a force of 40 Newtons and it accelerates at 0.5 m/s², what is the mass of the cart?

$$F = ma$$

 $(40N) = m(.5 \frac{m}{s^2})$
 $m = 80Kg$

What is the acceleration of a 3 kg rock that is thrown with a force of 18 N?

$$F = ma$$

 $(18N) = (3kg)a$
 $(6N/5^2 = a)$