FORCE AND MOTION REVIEW

1. Acceleration	A. push or pull that acts on an object, causing it to move, change speed or direction, or stop moving.	
2. Velocity	B. change in position or place.	
3. Inertia	C. how far an object moved from its original position	
4. Net Force	and in what direction the object moved.	
5. Force	D. rate at which the position of an object changes.	
6. Displacement	E. rate at which an object's velocity changes.	
 7 Motion	F. rate at which an object moves in a certain direction.	
	G. tendency of a still or moving object to resist a change in its motion.	
8. Speed	H. force that results from the combination of all forces that act on an object	
Which of Newton's Three Laws Applies? Law 1, 2, or 3?	Speed (S) or Velocity (V)	
When you put a book on a table the table pushes on the b	A person walks 3.5	
A person is pushed forward into their seatbelt when a car stops.	r mph.	
A larger car takes more force to move.	A bird flies 20 m/s.	
A person leans on a wall and the wall pushes back.	A bike goes 30 m/s to-	
A brick sits on a table until you push on it.	ward town.	
Speed vs. Time	Understanding Net Force Which way will it accelerate?	
B (D) (D) (D) (D) (D) (D) (D) (D)	30 N	
Constant speed: Constant speed: Deceleration: Accelerating:	6 N ← M → 8 N	
Time	15 N	

The unit of force is the _____.
Force = _____ X _____
Average speed = _____ ÷ _____

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 (and direction) on the cart?

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

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

A 50 kg object is accelerating at a rate of 5 m/s. Calculate the force needed to produce this acceleration.

A car travels 2.5 hours in a northerly direction for 300 km. Determine the car's speed and velocity.

time = distance = direction = A woman drives to the grocery store. During the trip, the woman drives a constant speed of 35 mph for 5 minutes, and then stops at a stop sign. After waiting for traffic, the woman drives an additional 20 minutes at 60 mph before parking in the grocery store parking lot. Circle the distance/time graph that best matches the woman's journey. Justify your answer.



Examples of Motion: Are the following examples representing SPEED, VELOCITY OR ACCELERATION?

1.	A greyhound dog can run about 40 mi/hr
2.	Monarch butterflies fly 12 mi/hr south as they migrate
3.	A car slows from 60 mi/hr to 25 mi/hr
4.	A car turns left while maintaining the same speed.
5.	A trip from Austin to Dallas takes about 3 hours going 65 mi/hr north
6.	Canadian geese can fly approximately 75 miles in 3 hours.
7.	A car increases speed from 30 mi/hr to 65 mi/hr

PLEASE USE THIS REVIEW AND YOUR NOTES FROM CLASS TO PREPARE FOR YOUR TEST!