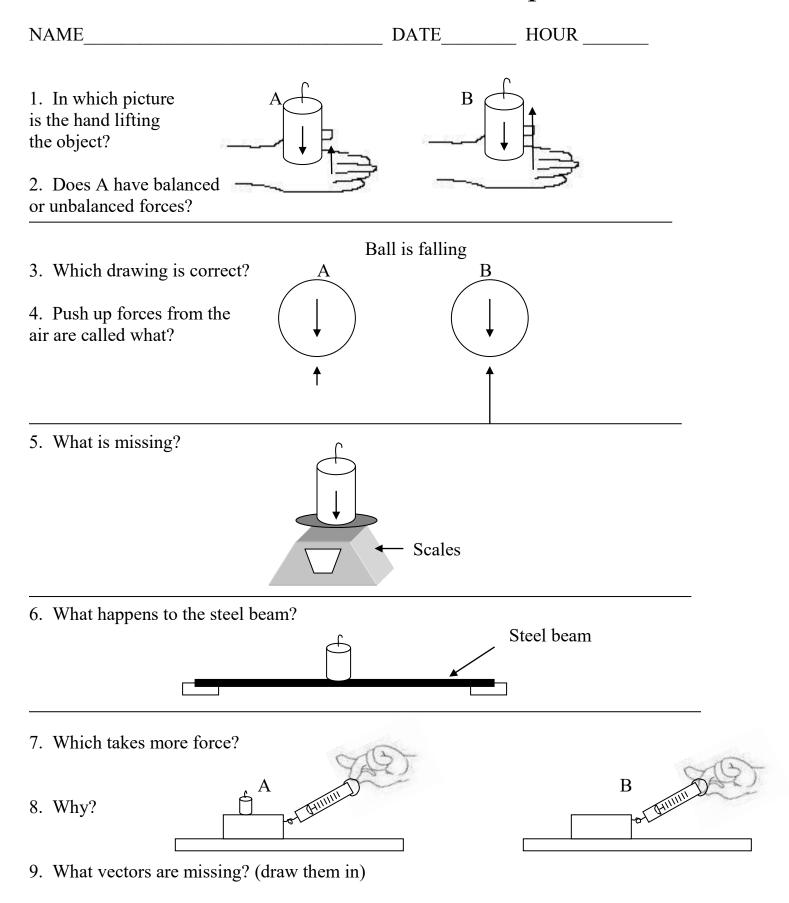
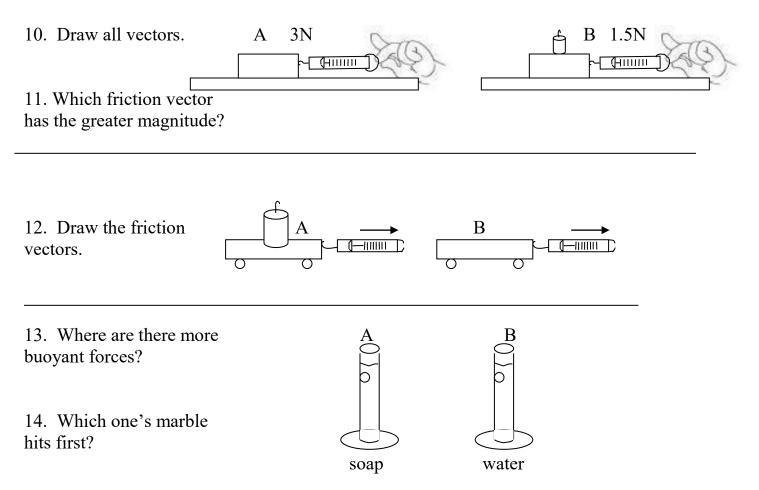
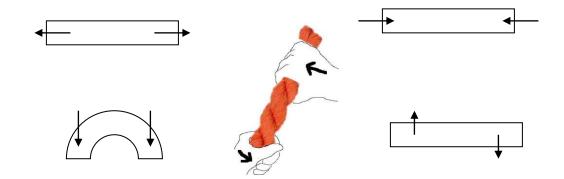
FORCES REVIEW /80points





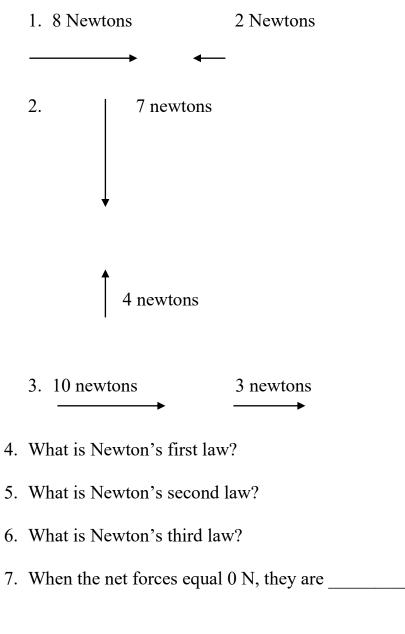
15.	forces where <b>you can see</b> the agent exerting the force
16	<b>forces</b> where the agent exerting the force is <b>invisible</b> (gravity,
magnetism)	
17	field force that pulls all objects toward each other
18	amount
19	forces where there is <b>no motion</b> because both vectors are equal
20	forces where there is <b>motion</b> because the vectors are not equal
21	-force arrow
22	push up forces found in liquids and gases
23	to change size, shape, or form
24	the ability to go back to normal after distortion
25	how far you can go before breaking
26	the act of getting broken
27	any force that fights against you
28	tool used to measure forces in newtons
29	group of objects interacting (acting together)
30	picture
31	resistance force caused by molecules rubbing together
32	forces of attraction between molecules of the same type
33	forces of attraction between molecules of a different type

34. LABEL:



?

## **LABEL THE NET FORCE AND DIRECTION**



8. What causes friction (if you zoom in really close)?

9. Give an example of kinetic friction

- 10. Give an example of static friction
- 11. Give an example of rolling friction
- 12. When can friction be helpful?
- 13. When can friction be harmful?
- 14.As the distance between two objects increases, the force of gravity between them
- 15. The gravitational pull is greater between two objects when their masses are
- 16.If an action force is a baseball hitting a bat, then the reaction force is
- 17. Why would a crumpled piece of paper hit the ground before a flat sheet of paper?
- 18.According to Newton's first law of motion, a moving object that has no force acting on it will....
- 19. Why does a ball thrown sideways curve downward?
- 20. Which cart will accelerate the least?



21.Two ice skaters at rest push against each other, causing both skaters to move away from each other. This is an example of which law?

- 22. Which units would be used for force?
- 23. If a foot pushes a skateboard across the room, are the forces balanced or unbalanced?
- 24. Give an example of interaction at a distance
- 25. What is gravity?
- 26. The resistance force that keeps your feet from slipping out from under you is called
- 27. The rope during a tug of war has
  - tension a.
  - strain b. distortion

c.

- d. all of the above
- none of the above e.
- 28. What would happen to the concrete of a driveway if it couldn't push up against a car with as much force as the car pushes down on it?

29. Which free body diagram is most accurate if the ball in the hand is about to fly upward?



- a dictionary sitting on a table a.
- a person rolling a cart
- a person holding onto a b. briefcase
- a wastebasket on the floor
- 31.A go-cart and a student weigh 120 kg together. What force is needed to accelerate on a racetrack at a rate of 5 m/s<sup>2</sup>?

c.

d.

32. What is the acceleration of baseball if it has a mass of 0.5 kg and hits a catcher's mitt with a force of 15 N?

33.	inertia	A] A force that attracts all objects to each other
34.	gravity	B] The combination of all forces acting on an object
35.	unbalanced forces	C] A combined force that causes something to move
36.	balanced forces	D] A combined force that does not cause movement
37.	net force	E] attractive force between molecules of different types
38.	adhesive forces	F] attractive force between molecules of the same type
39.	cohesive forces	G] the property of matter that makes it hard to get moving, and also hard to stop