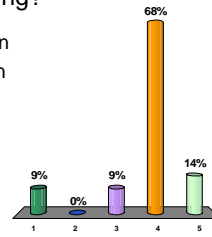


Results for ICA on  
January 7, 2010,  
afternoon class

Answers circled in green  
one clarification typed in

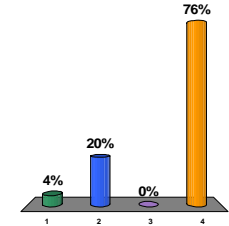
Asteroids move through space for billions of years. What keeps them moving?

1. Their natural motion
2. Their violent motion
3. Continued force applied to asteroid
4. Inertia
5. Gravity



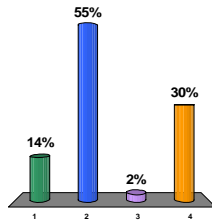
When the mass of an object is compared to its volume, the concept is

1. mass.
2. weight.
3. volume.
4. density.



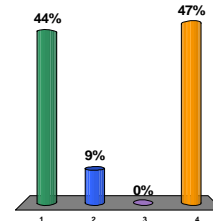
The force due to gravity on a body is the body's

1. mass.
2. weight.
3. density.
4. All of the above.



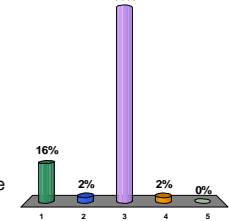
An object in mechanical equilibrium is an object

1. at rest.
2. moving with constant velocity.
3. having no acceleration.
4. all of the above



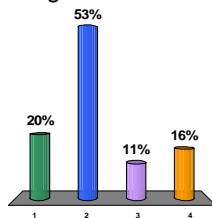
Compared with the mass of a certain object on Earth, the mass of the same object on the Moon is

1. Less
2. More
3. The same
4. You cannot tell without weighing them
5. It depends on what unit system you use



An object weighs 30 N on Earth. A second object weighs 30 N on the Moon. Which has the greater mass?

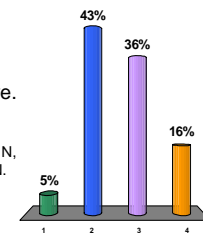
1. the one on Earth
2. the one on the Moon
3. They have the same mass.
4. not enough information to say



A pair of parallel forces acting on the same line can have a resultant of

1. 4 N.
2. 20 N.
3. Both of the above.
4. Neither of the above.

• Explanation:  
When parallel,  $12\text{ N} + 8\text{ N} = 20\text{ N}$ ,  
or  $12\text{ N} - 8\text{ N} = 4\text{ N}$ .



Distance traveled is equal to average speed multiplied by

1. distance.
2. time.
3. acceleration.
4. instantaneous speed.

