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CP Physics

12/12/13

Chapter 3 P 35

1. Natural motion was motion that was meant to happen such as the revolution of the moon, violent motion was motion imposed by organisms such as a bat being swung, or a football being thrown.
2. They went against the church, which said planets rotated on spheres.
3. By increasing the force, one can counteract the effect of friction.
4. Stays constant, however since on a smooth horizontal surface, nothing moved the ball there is no speed.
5. It will regain its initial height.
6. Both, rest is the inverse of motion.
7. The law of inertia states this, but only when there is no outside force, things like friction, and air resistance are considered outside forces.
8. None, besides the initial force.
9. It has twice the mass, does not have twice the inertia, and it does have twice the weight.
10. Yes, and no because they are of different viscosity.
11. Mass is independent of gravity/space time.
12. No inertia is based off of mass not weight.
13. N/A\*
14. At your feet, assuming your hands are attached to your body.

Chapter 3 P 36

1. N/A\*
2. It is moving relative to the ground, but not relative to the wagon.
3. N/A\*
4. Volume
5. N/A\*
6. N/A\*
7. N/A\*
8. N/A\*
9. .
   1. 100 km/h relative to the road 0 km/h relative to you, assuming you hold it still
   2. Yes

Chapter 4

1. N/A\*
2. Net force is the amount of force when the lesser force(s) are subtracted from the greater force(s)
3. 30 N
4. 20 N
5. 2
6. 2(-)
7. Directly proportional is when figure A increases, and so does b, inversely proportional is when figure A increases and b decreses.
8. N/A\*
9. 20,000 N
10. Newtons isn’t a unit of weight, this question should be worded has 15 n of force.
11. N/A\*
12. Friction is the result of two objects sliding against one another
13. 100.1N, .1N, .1 m/s^2
14. N/A\*
15. N/A\*
16. N/A\*
17. N/A\*
18. Air contains oxygen, nitrogen and other elements which have matter and create air resistance.

Chapter 4 Think and Explain:

1. N/A\*
2. 1.5 m/s
3. N/A
4. N/A
5. Mass is 10kg, moon is product of 10 times the quotient of 1 divided by 6 or 1.66666666
6. The reading on the scale is equal to her weight
7. It decreases friction between the opposing linemen and the ground to zero since he is no longer touching the ground.
8. N/A
9. N/A
10. N/A
11. N/A
12. 0...?

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\*= not assigned