Game Board_

_et's Play Jeopardy





Force and Motion



Forces		Newton	Motion	Gravity	Pendulum and Friction
	100	100	100	100	100
	200	200	200	200	200
	300	300	300	300	300
	400	400	400	400	400
	500	500	500	500	500



Force 100

The two kinds of force are.

See Answer



Force 100/A

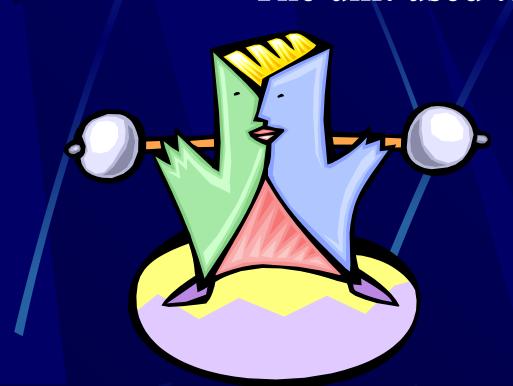
What are push and pull.





Force 200

The unit used to measure force.





Force 200 A

What is a Newton?



Force 300

What is the force of a 1 kg mass accelerating at 5 m/s²?



Force 300A

What is 5 N?





Force 400

A Newton can also be described in these units.



Forces 400A



Answer

What are kg x m/s²?



Force 500

The mass of an object that has a force of 10 N and is accelerating at 2 m/s²?



Force 500A

What is 5 Kg?



Newton 100

He is the father of modern Physics?



Newton

100A

Who is Sir Isaac Newton



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Newton

200

Newton's first law.



Newton

200A



An object at rest stays in rest, an object in motion stays in motion, unless acted on by an unbalanced force.

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Newton

300

Newton's Second Law.



Newton 300 A

Force, mass, and acceleration are related by: F= Mass x acceleration



Newton 400

Mass is measured in these units.



Newton

400A

What are grams or Kilo grams

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Newton

500

Force is measured in these units.



Newton 500/A

What is a Newton or kg x m/s²?

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Motion 100

Give an example of frame of reference when you explain why a book laying on a table might appear to move.



Motion 100A

From the point of view from space the book is moving with the Earth.



What is the velocity of a car moving north 60 miles in half an hour.



№ 200A

What is 120 miles per hour North.



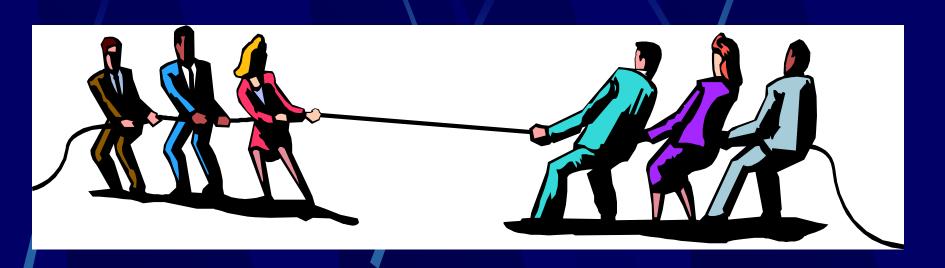
300

Complete this statement: For every action there is.....



300A

An equal but opposite reaction.





What is the distance a car can travel at 20 miles per hour in 3 and a half hours.







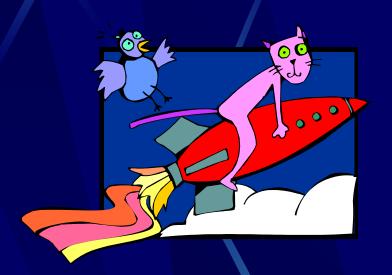
Motion 400A

What is 70 miles?



500

How much time would it take for a rocket to go 1000 km at a speed of 250 km/minute?





Motion 500A

What is 4 minutes?



Gravity/100

The force due to gravity near the Earth is:



Gravity 100A

What is 9.8 Newtons/kg?





Gravity

What is the tension force of a (massless) string holding a pinata at a birthday party? The pinata with the candy inside has a mass of 3 kg.



Gravity 200A

What is F= Mass X Gravity

3 kg x 9.8 N/Kg =

29.4 N



Gravity 300

Does a balloon filled with helium defy gravity? Why?



Gravity 300 A

No, Newton's laws apply to balloons.

The force of air pushing the balloon up is greater than the force of the balloon pushing down on the air. The forces are unbalanced.





Gravity 400

What would happen if there is an balanced force between a wagon and the horse pulling the wagon?



400A

The wagon would not move.





Gravity 500

The attraction of an object with mass for another object with mass.



Gravity 500A

What is the definition of gravity?



If the length of a pendulum is increased the time it takes for one swing will.....



100A

What is increase?

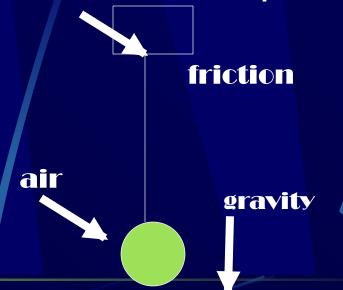


Describe three forces acting on a pendulum.



Pendulum and Friction 200A

What are gravity, the force of air resistance, and the force of friction from the hanging point of the pendulum.

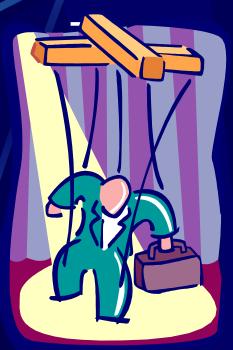




Which would have more gravitational force a fifty kg pendulum or a 10 gram pendulum?



Pendulum and Friction 300A



kg pendulum would have more force.?



Which would swing faster a 5 kg pendulum or a 1 kg pendulum?



Neither the speed is not dependent on the mass. It is due to the acceleration due to gravity which is the same for both pendulums



Which has more frictional force a wagon with wheels or without wheels.



Pendulum and Friction 500A

The wagon without wheels because there is less surface area pushing on the ground.





Scoreboard

Team	Team	Team	Team	Team
1	2	3	4	/ 5



References

Microsoft Clipart
www.aaaclipart.com
www.soundamerica.com

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