This chapter has 57 questions. Scroll down to see and select individual questions or purpore the list using the checkboyes below.	Select 0 questions at random and keep in order V
Multiple Choice Questions - (45)	Topic: Archimedes' Principle - (14)
Fill In The Blank Questions - (12)	Topic: Atmospheric Pressure and the Behavior of Gases - (14)
\Box Odd Numbered - (29)	Topic: Bernoulli's Principle - (6)
$\Box Even Numbered - (28)$	$\Box \text{ Topic: Fluids in Motion - (10)}$
Accessibility: Keyboard Navigation - (45)	Topic: Pressure and Pascal's Principle - (13)
$\square \text{ Difficulty: Easy - (40)}$	$\Box \text{ Type: Conceptual - (44)}$
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Difficulty: Medium - (12)	$\Box \text{ Type: Numerical - (11)}$
Gradable: automatic - (57)	
1. Archimedes' Principle states that	
\rightarrow \bigcirc an object immersed in a	fluid is buoyed up by a force equal to the weight of the displaced fluid.
\bigcirc the pressure of a fluid is	inversely proportional to the temperature of the fluid
\bigcirc the pressure in a fluid is	directly related to the depth below the surface of the fluid
\bigcirc the pressure in a fluid is	directly reportional to the prossure exerted on the fluid
Select 5	directly proportional to the pressure exerted on the ridid.
	Accessibility: Keyboard Navigation Difficulty: Easy
Multiple Choice Question	Topic: Archimedes' Principle Type: Conceptual
MC Archimedes' Principle states that	Type: Definition
2. One morning you discover that a tire statements is true?	e on your auto is in need of air. As you add air to the tire, which of the following
\bigcirc The density of the air in	the tire gets smaller.
\rightarrow \bigcirc The pressure of the air in	n the tire increases.
\bigcirc The number of atoms of	air in the tire stays the same.
Select 🗟 O All of the statements are	
	Accessibility: Keyboard Navigation Difficulty: Easy
Multiple Choice Question	Gradable: automatic
MC One morning you discover that a tir	re on your Type: Concentual
3 A clown at the circus blows up a bal	loon with belium. This balloon will not float to the ceiling unless
\bigcirc the pressure of the helium	m inside the balloon is greater than the atmospheric pressure
\bigcirc the pressure of the helloor	his less than the weight of the air displaced by the balloon
\bigcirc the weight of the balloon and the balloon	it contains weight loss than the air displaced by the balloon
\rightarrow \bigcirc the balloon and the heric	
Select 🔂 🔿 the pressure of the heliun	m inside the balloon is less than the atmospheric pressure.
	Accessibility: Keyboard Navigation
	Gradable: automatic
Multiple Choice Question	Topic: Atmospheric Pressure and the Behavior of Gases
MC A clown at the circus blows up a ba	Iloon wit Type: Conceptual
4. A balloon inflated with helium is ab	le to float toward the ceiling because
\bigcirc the weight of the balloon is greater than the weight of the air displaced by the balloon.	
\bigcirc the density of the gas ins	side the balloon is greater than the density of the atmosphere.
\bigcirc the pressure of the gas in	side the balloon is less than the atmospheric pressure.
\bigcirc the pressure of the gas in	side the balloon is greater than the atmospheric pressure.
Select $\overrightarrow{\mathbf{a}} \rightarrow \bigcirc$ the balloon and the gas i	t contains weigh less than the air displaced by the balloon.

Difficulty: Easy Gradable: automatic Topic: Atmospheric Pressure and the Behavior of Gases Type: Conceptual

Multiple Choice Question MC A balloon inflated with helium is able to fl...

Select

- 5. A child is drinking a liquid with a straw. Which of the following statements is true?
 - \bigcirc The fluid is being pulled up into the straw.
 - \bigcirc Longer straws work better because the pressure is larger deeper down.
 - \bigcirc The pressure inside the straw depends on the viscosity of the liquid.

 \rightarrow \bigcirc The pressure in the straw is reduced and the liquid is pushed upward by atmospheric pressure on the surface of the liquid.

Accessibility: Keyboard Navigation Difficulty: Easy Gradable: automatic Topic: Archimedes' Principle Type: Conceptual

- Multiple Choice Question MC A child is drinking a liquid with a straw. W...
- Select 🔂 6. A sharp knife can more easily cut objects than can a dull knife because
 - \bigcirc a greater force can be applied with a sharp knife.

- \rightarrow \bigcirc a greater pressure can be applied with a sharp knife.
 - \bigcirc dull knives cannot apply large forces.
 - \bigcirc sharp knives have edges that can fit between the molecules of the object.

Accessibility: Keyboard Navigation Difficulty: Easy Gradable: automatic Topic: Pressure and Pascal's Principle Type: Conceptual

- 7. The skinny tires of a 10-speed racing bicycle require more air pressure than the fat tires on an equally massive mountain bike because
 - \bigcirc the racing bike moves faster.

MC A sharp knife can more easily cut objects th...

- \rightarrow \bigcirc the racing bike touches the ground over a smaller area than the bike with fat tires.
 - \bigcirc the area of contact of the racing bike's tires is greater than that of the bike with fat tires.
- \bigcirc the racing bike exerts more force on the ground.

Accessibility: Keyboard Navigation Difficulty: Easy Gradable: automatic Multiple Choice Question MC The skinny tires of a 10-speed racing bicycl... 8. An ant and an elephant are walking through the jungle. On which does the greater buoyant force act? O The ant.

- $\rightarrow\,\bigcirc\,$ The elephant.
 - \bigcirc The same buoyant force acts on both.
 - \bigcirc Neither is floating, so no buoyant force is acting at all.

Accessibility: Keyboard Navigation Difficulty: Medium Gradable: automatic Topic: Archimedes' Principle Type: Conceptual

Multiple Choice Question

Multiple Choice Question

Select

Select

Select

Select Q

MC An ant and an elephant are walking through t...

- 9. If you hold a light tissue in your hands and gently blow across its top, the tissue will rise slightly because
 - \bigcirc blowing across the tissue removes all of the air, and then the air below the tissue pushes the tissue up.
 - \bigcirc collisions of the moving air with the tissue cause it to rise.
 - \rightarrow \bigcirc the pressure of moving air is less than that of static air.
 - according to Archimedes' Principle, moving air exerts more buoyant force.

Accessibility: Keyboard Navigation Difficulty: Easy Gradable: automatic Topic: Bernoulli's Principle Type: Conceptual

Multiple Choice Question

MC If you hold a light tissue in your hands and.

10. A hot air balloon derives its lift from the property of fluids as stated by

- Bernoulli's Principle.
- Boyle's Law.
- Pascal's Principle.
- \rightarrow \bigcirc Archimedes' Principle.

Accessibility: Keyboard Navigation Difficulty: Medium Gradable: automatic Topic: Archimedes' Principle Type: Conceptual

Multiple Choice Question

MC A hot air balloon derives its lift from the ...

11. If you sit in a boat near the edge of a river channel, you might notice the water moving more quickly on the side away

from the shore (the channel side). If you are initially moving with the river, you will be pushed

- \rightarrow \bigcirc into the channel because the water pressure is larger on the shore side.
 - \bigcirc into the channel by the turbulent flow of the water.
 - \bigcirc toward the shore because the water flow is laminar around the boat.
- \bigcirc toward the shore because the water pressure is smaller on the shore side.

Accessibility: Keyboard Navigation Difficulty: Medium Gradable: automatic Topic: Fluids in Motion Type: Conceptual

Multiple Choice Question MC If you sit in a boat near the edge of a channel...

- Select 12. An ice cube in a glass of water is pushed to the bottom of the glass and held there with a straw. Consequently, the buoyant force on the ice cube is now
 - \bigcirc exactly balanced by the force exerted only by the straw.
 - \bigcirc exactly balanced by the weight of the ice cube.
 - \rightarrow \bigcirc greater than when the cube was floating at the top.
 - \bigcirc the same as when the cube was floating at the top.

Select Q

Accessibility: Keyboard Navigation Difficulty: Easy Gradable: automatic Multiple Choice Question Topic: Archimedes' Principle Type: Conceptual MC An ice cube in a glass of water is pushed to... 13. A boat floating in a large pool is loaded with wood blocks. The water level at the pool's edge is marked with a red line. The blocks are now thrown overboard and float outside the boat. When the water becomes calm again, \bigcirc the red line is slightly lower than the water level. \bigcirc the red line is slightly higher than the water level. \rightarrow \bigcirc the red line is still at the water level. Select Q Accessibility: Keyboard Navigation Difficulty: Hard Gradable: automatic Multiple Choice Question Topic: Archimedes' Principle MC A boat floating in a large pool is loaded wi... Type: Conceptual 14. A boat floating in a large pool is loaded with solid iron bars. The water level at the pool's edge is marked with a red line. The iron is now thrown overboard. When the water becomes calm again, \bigcirc the red line is slightly lower than the water level. \rightarrow \bigcirc the red line is slightly higher than the water level. \bigcirc the red line is still at the water level. Select Q Accessibility: Keyboard Navigation Difficulty: Hard Gradable: automatic Multiple Choice Question Topic: Archimedes' Principle MC A boat floating in a large pool is loaded wi... Type: Conceptual 15. An iceberg is floating in the ocean with 10% of its volume extending above the ocean's surface. What can you say about the iceberg? \bigcirc Its weight is less than the water it displaces. \bigcirc It displaces only 90% of its weight in water. ○ As it melts, a smaller fraction of its volume will extend above the surface. \rightarrow \bigcirc Its density is close to but smaller than the density of water. Select Q Accessibility: Keyboard Navigation Difficulty: Medium Gradable: automatic Multiple Choice Question Topic: Archimedes' Principle MC An iceberg is floating in the ocean with 10%... Type: Conceptual 16. If the atmospheric pressure is 15 lb/in², what is the corresponding downward force on the top of a horizontal square area 5 inches on each side? \bigcirc zero. \bigcirc 15 lbs. ○ 75 lbs. \rightarrow \bigcirc 375 lbs. Select Accessibility: Keyboard Navigation Difficulty: Easy Gradable: automatic Multiple Choice Question Topic: Atmospheric Pressure and the Behavior of Gases MC If the atmospheric pressure is 15 lb/in2, wh... Type: Numerical 17. It is observed that, as bubbles rise in a deep column of water, the diameter of the bubbles increases. This is best explained by ○ Bernoulli's Principle.

 Select
 Select

Accessibility: Keyboard Navigation Difficulty: Easy Gradable: automatic Topic: Atmospheric Pressure and the Behavior of Gases Type: Conceptual

Multiple Choice Question MC It is observed that, as bubbles rise in a de...

 \rightarrow \bigcirc Boyle's Law.

Select 18. Hot coffee is poured into a cylindrical container until it is nearly full. The container is immediately sealed by stretching a rubber balloon across the container mouth and tightly sealing the edges. Twenty minutes later, you observe that the still intact rubber seal

 \bigcirc has bulged outward in the center of the mouth of the container.

 \bigcirc is still flat across the entire mouth of the container.

 \bigcirc has bulged outward only at the edges of the container mouth.

 \rightarrow \bigcirc has sagged inward toward the coffee.



MC A gas originally occupies a volume of 0.5 m3... Type: Numerical

- 23. In U.S. customary units, air pressure is measured in pounds per square inch. In the metric system, it is measured in Pascals, and one Pascal is equal to
 - $\bigcirc\,$ one pound per square foot.
 - \rightarrow \bigcirc one newton per square meter.
 - \bigcirc one newton per square centimeter.
 - \bigcirc one metric ton per hectare.
 - \bigcirc none of these.

 Accessibility: Keyboard Navigation

 Difficulty: Easy

 Gradable: automatic

 Multiple Choice Question

 MC In U.S. customary units, air pressure is mea...

 Topic: Atmospheric Pressure and the Behavior of Gases

 Type: Definition

Topic: Atmospheric Pressure and the Behavior of Gases



 \bigcirc higher than the actual value.

 \rightarrow \bigcirc lower than the actual value.

MC Suppose a little bubble of air has gotten in...

Accessibility: Keyboard Navigation Difficulty: Hard Gradable: automatic Topic: Atmospheric Pressure and the Behavior of Gases Type: Conceptual

25. The density of ice is about 900 kg/m³, and the density of water is about 1000 kg/m³. A cubic block of ice one meter on a side floats in water. Assuming that the lowest square face of the cube is horizontal, the height of the block above the water line is

 $\bigcirc 0.9 \text{ m.}$ $\bigcirc 0.8 \text{ m.}$ $\bigcirc 0.5 \text{ m.}$ $\bigcirc 0.2 \text{ m.}$ $\rightarrow \bigcirc 0.1 \text{ m.}$

Select

Multiple Choice Question

Accessibility: Keyboard Navigation Difficulty: Hard Gradable: automatic Multiple Choice Question Topic: Archimedes' Principle MC The density of ice is about 900 kg/m3, and t... Type: Numerical 26. The density of aluminum is 2700 kg/m³. An aluminum block has a mass of 2.5 kg. The buoyant force exerted on this block when it is completely submerged in water of density 1000 kg/m³ is approximately ○ 0.0091 N. ○ 0.93 N. ○ 2.5 N. → ○ 9.1 N. Select ○ 24.5 N. Accessibility: Keyboard Navigation Difficulty: Hard Gradable: automatic Multiple Choice Question Topic: Archimedes' Principle MC The density of aluminum is 2700 kg/m3. An al... Type: Numerical 27. One section of a pipe carrying water has a cross-sectional area of 16 cm^2 ; in this section the water has flow velocity of 1.0 m/s. Another section of this pipe has a constricted cross-sectional area of 4 cm². If the flow is steady, what is the water velocity in the constricted section? \rightarrow \bigcirc 4.0 m/s ○ 2.0 m/s ○ 1.0 m/s Select ○ 0.50 m/s ○ 0.25 m/s Accessibility: Keyboard Navigation Difficulty: Easy Gradable: automatic Multiple Choice Question Topic: Fluids in Motion MC One section of a pipe carrying water has a c... Type: Numerical 28. How does the velocity of air moving over the top of the wing of an airplane in flight compare to the velocity of air moving under the wing? \bigcirc The velocities are the same. \rightarrow \bigcirc The velocity over the wing is greater. \bigcirc The velocity under the wing is greater.

Accessibility: Keyboard Navigation Difficulty: Easy Gradable: automatic Topic: Bernoulli's Principle Type: Conceptual

Multiple Choice Question MC How does the velocity of air moving over the...

- Select 29. The glass in a window is 35 inches wide and 20 inches tall, and standard atmospheric pressure is 14.7 pounds per square inch. What net force would result on the glass if the air pressure outside the house were 1% lower than the air pressure inside?
 - \bigcirc 103 pounds inward.
 - \rightarrow \bigcirc 103 pounds outward.
 - $\bigcirc\,$ 10300 pounds inward.
 - $\bigcirc\,$ 10300 pounds outward.
 - \bigcirc There would be no net force.

Multiple Choice Question MC The glass in a window is 35 inches wide and ... Accessibility: Keyboard Navigation Difficulty: Medium Gradable: automatic

Topic: Atmospheric Pressure and the Behavior of Gases Type: Numerical

Accessibility: Keyboard Navigation

Accessibility: Keyboard Navigation

Difficulty: Medium

Gradable: automatic

Difficulty: Medium Gradable: automatic

Type: Numerical

Topic: Fluids in Motion

Topic: Bernoulli's Principle

- 30. According to Bernoulli's equation, the pressure in a fluid will tend to decrease if its velocity increases. Assuming that a wind speed of 1 m/s causes a pressure drop of 0.645 Pa, what pressure drop is predicted by Bernoulli's equation for a wind speed of 5 m/s?
 - 1.29 Pa
 1.94 Pa
 3.325 Pa

 \rightarrow \bigcirc 16.125 Pa

Multiple Choice Question

MC According to Bernoulli's equation, the pressure ...

- 31. Two cylindrical pipes both carry an ideal fluid (zero viscosity) in laminar flow. Pipe A has radius $R_A = 8$ cm and flow velocity $V_A = 2$ cm/s. Pipe B has radius $R_B = 4$ cm and flow velocity $V_B = 4$ cm/s. Compared to the rate of flow in pipe A, that in pipe B is
 - \bigcirc the same.
 - \rightarrow \bigcirc half as large.

 \bigcirc twice as large.

 \bigcirc It depends on the length of the pipe.

Multiple Choice Question

MC Two cylindrical pipes both carry an ideal fl...

- 32. Some people say that, based on the arrangement of its molecules, glass should be considered a liquid. If we think of glass as a liquid, in which of these properties is it most unlike other common liquids?
 - Weight
 - \bigcirc Density
 - Transparency
 - $\rightarrow \bigcirc$ Viscosity

Multiple Choice Question

MC Some people say that, based on the arrangeme...

- 33. A uniform wooden plank floats in a swimming pool. The plank weighs 100 pounds, and exactly 10% of its volume is above the waterline. The maximum weight of iron which could be suspended from underneath the plank without causing the whole combination to sink to the bottom of the pool is
 - \bigcirc exactly 10 pounds.
 - \rightarrow \bigcirc somewhat more than 10 pounds.
 - \bigcirc somewhat less than 10 pounds.
 - \bigcirc more information is needed.

Accessibility: Keyboard Navigation Difficulty: Medium Gradable: automatic Topic: Archimedes' Principle Type: Numerical

Multiple Choice Question

MC A uniform wooden plank floats in a swimming ...

34. A person wearing snowshoes can walk across a blanket of freshly fallen snow without sinking far into the snow because

- \bigcirc the snowshoes reduce the force of the person on the snow.
- \bigcirc the large area of the snowshoe concentrates the force of the person to a point smaller than the foot.

Select

Select

Select O

Accessibility: Keyboard Navigation Difficulty: Easy Gradable: automatic Topic: Fluids in Motion Type: Conceptual

- \rightarrow \bigcirc snowshoes cover a larger area than a foot and so the pressure is reduced.
 - \bigcirc snowshoes push less dense snow out of the way so the person stands on more solid ice below.

Accessibility: Keyboard Navigation Difficulty: Easy Gradable: automatic Topic: Pressure and Pascal's Principle Type: Conceptual

Multiple Choice Question MC A person wearing snowshoes can walk across a...

Select 🔂 35. Atmospheric pressure decreases as one moves to higher elevations because

 \bigcirc the force of gravity is weaker on a mountain than at sea level.

 \bigcirc it is much colder on a mountain than at sea level.

- \bigcirc the air moves at higher speeds near mountains than over the oceans.
- \rightarrow \bigcirc there is much less air above a mountain than above the oceans.

Multiple Choice Question MC Atmospheric pressure decreases as one moves ... Accessibility: Keyboard Navigation Difficulty: Easy Gradable: automatic

Select

Select

Topic: Atmospheric Pressure and the Behavior of Gases Type: Conceptual

^{36.} A block that has a density of 900 kg/m³ is placed in water (density 1000 kg/m³). The block will

 \bigcirc sink to the bottom.

MC A block that has a density of 900 kg/m3 is p...

- $\rightarrow \bigcirc$ sink until it is almost, but not entirely, submerged.
 - \bigcirc sink until it is entirely submerged and then remain in place just below the surface.
 - \bigcirc sink just a little bit with most of the block above the water.
- \bigcirc rest on the water with none of the block submerged.

Accessibility: Keyboard Navigation Difficulty: Easy Gradable: automatic Topic: Archimedes' Principle Type: Conceptual

- 37. Imagine a steel pipe that doesn't leak from the sides and is already filled with water. Water enters at a rate of 2 kg/s but leaves at a rate of 1 kg/s. Which of the following is true?
 - \bigcirc The water pressure inside the tube rises as water is added.
 - \bigcirc The tube is narrower where the water enters than where it leaves.
 - \bigcirc The water flow must be laminar.

Select Q

Select

 \rightarrow \bigcirc It is not possible for this situation to occur.

Accessibility: Keyboard Navigation Difficulty: Easy Gradable: automatic Topic: Fluids in Motion

Accessibility: Keyboard Navigation

Type: Conceptual

Difficulty: Easy Gradable: automatic

Type: Conceptual

Topic: Fluids in Motion

Multiple Choice Question

Multiple Choice Question

MC Imagine a steel pipe that doesn't leak fr...

38. The best shape for an automobile to have is one that is streamlined both in the front and in the back. The reason for this is

- \bigcirc to avoid uneven air flows that might push the vehicle sideways.
 - \bigcirc to improve fuel efficiency when driving in reverse.
 - \bigcirc to use the viscosity of the air to help propel the automobile forward.
- \rightarrow \bigcirc to ensure the air flow remains laminar all the way around the vehicle.

Multiple Choice Question

MC The best shape for an automobile to have is ...

- 39. A dump truck has a loosely tied canvas over its empty bed, which is full of still air. As the truck speeds down the highway, the canvas will tend to
 - \bigcirc get pushed onto the load.
 - \rightarrow \bigcirc billow outward from the load.
 - \bigcirc smooth out in a level, horizontal plane.
- Select \bigcirc lay limply in a jumbled pile.

Accessibility: Keyboard Navigation Difficulty: Easy Gradable: automatic Topic: Fluids in Motion Type: Conceptual

Multiple Choice Question

MC A dump truck has a loosely tied canvas over ...

- 40. One morning you discover that a tire on your auto is in need of air. This is visible: it has flattened significantly. Significant flattening indicates low air pressure
 - \bigcirc only if all tires are equally flattened; otherwise it is just low atmospheric pressure.
 - \rightarrow \bigcirc because more of the tire's surface area is required to provide same amount of force.
- \bigcirc and less weight.
 - and higher temperature.



Accessibility: Keyboard Navigation Difficulty: Easy Gradable: automatic Topic: Pressure and Pascal's Principle Type: Conceptual

Multiple Choice Question MC One morning you discover that a tire on your...



Select

Select 7 41. Storm winds blowing at high speed over a roof can destroy the roof of a closed-up house because of Bernoulli's Principle. What happens is

 \bigcirc the roof is pushed inward and collapses.

 \bigcirc the wind inside the house blows out the roof from the inside.

 \rightarrow \bigcirc the higher pressure inside lifts the roof off the walls.

 \bigcirc friction rips up the roof and blows it apart.

Multiple Choice Question MC Storm winds blowing at high speed over a roo... Accessibility: Keyboard Navigation Difficulty: Easy Gradable: automatic

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Topic: Bernoulli's Principle Type: Conceptual

- 42. A baseball pitcher throws a curveball, and Bernoulli's Principle gives a fair description of why it takes such a drastic
 - curve. If that pitcher could throw the exact same pitch on the Moon, then
 - \bigcirc it would curve more drastically, because gravity is so much weaker on the Moon.
 - it would curve more drastically, because there is no counterforce from air pressure on the Moon.
 - \bigcirc it would curve but not as much as on Earth, since the Moon's gravity is so weak.
 - \rightarrow \bigcirc it would not curve at all, because the Moon has no atmosphere.

Multiple Choice Question MC A baseball pitcher throws a curveball, and B... 43. Which of the following statements is true? • A floating ocean liner will displace its own volume of water. • A submerged submarine will displace its own volume of water. \rightarrow \bigcirc A floating ocean liner will displace its own weight of water. \bigcirc None of the above statements is true. Select Q Accessibility: Keyboard Navigation Difficulty: Medium Multiple Choice Question MC Which of the following statements is true? service station by a small motor pumping fluid through a pipe. This an illustration of \rightarrow \bigcirc Pascal's Principle. ○ Archimedes' Principle. ○ Bernoulli's Law. \bigcirc Newton's 3rd Law. Multiple Choice Question MC Even though your car weighs several thousand... Type: Conceptual 45. A sealed hot air balloon is capable of rising to high altitudes when it is initially released. As the air in the balloon cools, however, it eventually comes back down to the ground because \bigcirc what goes up must come down. \bigcirc objects heavier than air can only fly through the air with the help of a motor. \bigcirc the object comes down when the air in it eventually leaks out. \rightarrow \bigcirc objects can only float in a fluid if their density is less than that of the fluid. Accessibility: Keyboard Navigation Difficulty: Easy Gradable: automatic Topic: Atmospheric Pressure and the Behavior of Gases Multiple Choice Question MC A sealed hot air balloon is capable of risin... Type: Conceptual

46. Suppose you have a helium-filled weather balloon above the house. As a storm leaves, the atmospheric pressure rises. Assuming the air temperature is the same, the volume of the balloon will decrease

Select

Difficulty: Easy Gradable: automatic Fill-in-the-Blank Ouestion Topic: Atmospheric Pressure and the Behavior of Gases FB Suppose you have a helium-filled weather bal... Type: Conceptual 47. Pascal's Principle states that an increase of pressure on an enclosed fluid is transmitted throughout the fluid. uniformity Difficulty: Easy Select Gradable: automatic Topic: Pressure and Pascal's Principle Fill-in-the-Blank Question Type: Conceptual FB Pascal's Principle states that an increase of pres... Type: Definition 48. If a barometer were to be made using water as the liquid instead of mercury, the length of the barometer tube for water would be than the tube for a standard mercury barometer. longer Select Q Difficulty: Easy Gradable: automatic Fill-in-the-Blank Ouestion Topic: Atmospheric Pressure and the Behavior of Gases FB If a barometer were to be made using water a... Type: Conceptual Select 49.

Accessibility: Keyboard Navigation Difficulty: Easy Gradable: automatic Topic: Bernoulli's Principle Type: Conceptual

44. Even though your car weighs several thousand pounds, it can easily be raised above your head by a pneumatic lift at the

Select

Accessibility: Keyboard Navigation Difficulty: Easy Gradable: automatic Topic: Pressure and Pascal's Principle

Select

Select

Gradable: automatic Topic: Archimedes' Principle Type: Conceptual



With 10 balloons the camera will slowly but surely rise. As a storm approaches the atmospheric pressure drops. Assuming

the air temperature and density are the same, the volume of each balloon will increase. When you let go, the speed of ascent will be ______.



faster

Difficulty: Medium Gradable: automatic Topic: Atmospheric Pressure and the Behavior of Gases Type: Conceptual

Fill-in-the-Blank Question FB Suppose you have 10 helium-filled party ball...

57. Aerodynamic lift results from _____ Principle.

Bernoulli

Select a

Fill-in-the-Blank Question FB Aerodynamic lift results from _____... Difficulty: Easy Gradable: automatic Topic: Bernoulli's Principle Type: Conceptual