Name:	

Date: _____

Bernoulli's Principle

1. The faster a fluid flows, the greater the pressure it exerts.

a. True

b. False

2. Ship captains must account for Bernoulli's principle when passing nearby in order to avoid collisions.

a. True

b. False

3. During a tornado, the roof of a house may blow off because the strong winds create an area of higher pressure outside the house then the pressure inside the house.

a. True

b. False

- 4. Holding a piece of paper to your mouth and blowing a steady stream of air over its top will cause the paper to lift upward.
 - a. True

b. False

- 5. Bernoulli's principle states that
 - a. pressure is transmitted equally through a fluid.
 - b. pressure increases as temperature decreases.
 - c. buoyant force equals weight of fluid displaced.
 - d. pressure in a fluid decreases as speed of the fluid increases.
- 6. Bernoulli's principle applies to ______.
 - a. gases only
 - b. liquids only
 - c. both gases and liquids
 - d. neither gases or liquids

- 7. Which of the following does Bernoulli's principle help to explain?
 - a. why water expands when it freezes
 - b. why umbrellas turn inside out on windy days
 - c. why condensation occurs on a cold glass of lemonade
 - d. why moving cars take longer to stop on ice than on dry pavement
- 8. As part of a physics demonstration, Mr. Taylor suspends two ping pong balls next to each other so that they have a small space between them. He then turns on a hairdryer and has it blow air in the space between the two ping pong balls. Which of the following should happen?
 - a. the two balls do not move
 - b. the two balls move upward
 - c. the two balls move further apart
 - d. the two balls move closer together
- 9. A large truck passes a car on the highway. According to Bernoulli's principle, which of the following should occur?
 - a. Pressure decreases between the vehicles, so the car and truck move slightly apart.
 - b. Pressure decreases between the vehicles, so the car and truck move slightly together.
 - c. Pressure increases between the vehicles, so the car and truck move slightly apart.
 - d. Pressure increases between the vehicles, so the car and truck move slightly together.
- 10. Two tall buildings are separated by a narrow alleyway. On a windy day, wind gusts move very quickly through the alley. If the buildings are not constructed properly, which of the following could be a concern when this occurs?
 - a. The buildings' windows could be blown outward into the alley because of air pressure differences.
 - b. The buildings' windows could be blown inward into the building because of air pressure differences.
 - c. The buildings' windows could be blown outward into the alley because of temperature differences.
 - d. The buildings' windows could be blown inward into the building because of temperature differences.