

Pascal's Principle

Total questions: 10

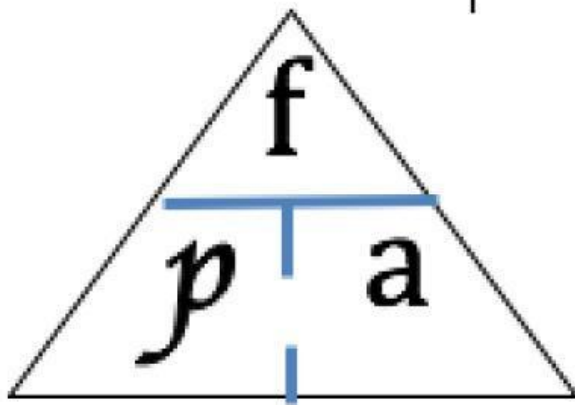
Worksheet time: 5mins

Instructor name: Khaled Barhoom

Name Class Date

1. The amount of force pushing on an area is the definition of....
 - a) Fluid
 - b) Viscosity
 - c) Barometer
 - d) Pressure
2. Pressure can be measured in Pascals (Pa) or Newtons per square meter.
 $1 \text{ Pa} = 1 \text{ N/m}^2$
 - a) True
 - b) False
3. A force is applied in a closed container, the pressure increases the same amount. EX: squeezing a water bottle or toothpaste
 - a) Archimede's Principle
 - b) Pascal's Principle
 - c) Bernoulli's Principle
4. Fluids can be...
 - a) solids
 - b) liquids
 - c) gases
 - d) liquids or gases
5. Which statement correctly describes pressure?
 - a) the applied force that acts on an object
 - b) force per unit area
 - c) the area to which a force is applied
 - d) force times surface area
6. As the area a force acts on increases, the force exerted on each unit of area
 - a) increases
 - b) decreases
 - c) remains constant

7.



Look at the pressure triangle. How do we calculate the area?

a) $f \div a$

b) $f \times p$

c) $p \times f$

d) $f \div p$

8. Pressure is measured in what units

a) Newtons

b) m/s

c) Pascals

d) Moles

9. Pressure can be measured in Pascals (Pa) or Newtons per square meter.

$1 \text{ Pa} = 1 \text{ N/m}^2$

a) True

b) False

10. Which statement correctly describes pressure?

a) the applied force that acts on an object

b) force per unit area

c) the area to which a force is applied

d) force times surface area