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Does Archimedes' principle tell us that, if an immersed object displaces liquid weighing 10 N, the buoyant force on the object is 10 N?

Answer ( [Please click here to Add Answer](#) )



- (a) What angle in radians is subtended by an arc 1.50 m in length on the circumference of a circle 2.50 m? What is this angle in degrees?
- (b) An arc 14.0 cm in length on the circumference of a circle subtends an angle of  $128^\circ$ . What is the radius of the circle?
- (c) The angle between two radii of a circle with radius 1.50 m is 0.700 **rad**. What length of arc is intercepted on the circumference of the circle by the two radii?

Answer ( [Please click here to Add Answer](#) )



Match the situation in column-A with the categories of stress in column-B.

COLUMN-A

- (a) A cable being stretched by forces acting at its end.

COLUMN-B

- (a) Bulk stress

Answer ( [Please click here to Add Answer](#) )



Rank an automobile dashboard, seatbelt, and airbag in terms of (a) the impulse and (b) the average force they deliver to a front-seat passenger during a collision, from greatest to least.

Answer ( [Please click here to Add Answer](#) )



(a) A 20 dB sound is twice as intense as a 10 dB sound, explain it.

(b) The degree of Doppler shift experienced by a listener is independent of how far the listener is from a moving sound source. Is it true or wrong explain it?

Answer ( [Please click here to Add Answer](#) )

