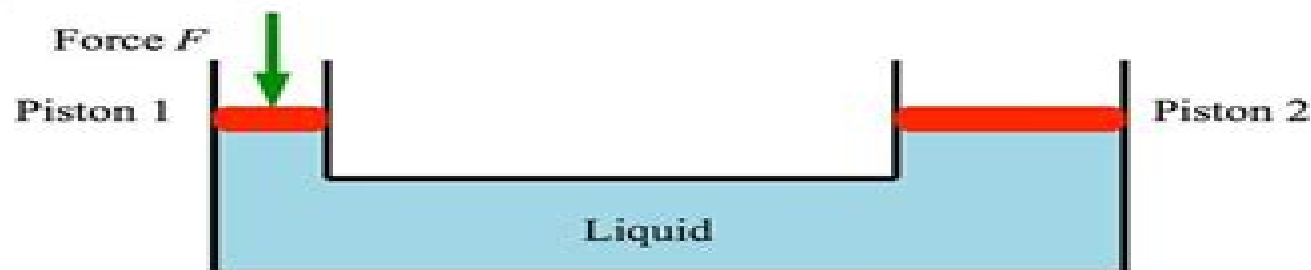


Question:



A hydraulic press is built as shown in the side view above, with a closed container filled with a non-compressible liquid. A circular movable piston on either side of the container allows force to be exerted on the liquid. In the diagram above Piston 1 has a diameter d and Piston 2 has a diameter $2d$. When a downward force F is applied to Piston 1

- a. An equal force F is applied upward to Piston 2 because of Newton's Third Law of equal and opposite forces.
- b. An equal force F is applied upward to Piston 2 because the pressure transmitted through the fluid is the same throughout.
- c. A smaller force $F/2$ is applied to Piston 2 because the diameter of that piston is greater.
- d. A greater force $2F$ is applied to Piston 2 because the diameter of that piston is greater.
- e. A greater force $4F$ is applied to Piston 2 because the diameter of that piston is greater.

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Answer:

The correct answer is *e*. The downward force F causes a change in pressure to be transmitted throughout the fluid based on $Pressure = \frac{Force}{Area}$. This change in pressure is transmitted equally throughout the liquid, with a resulting upward pressure on Piston 2. The Force applied on Piston 2 can be determined by setting the Pressures applied by the liquid on each piston as equal:

$$\frac{Force1}{Area1} = \frac{Force2}{Area2}$$

$$Force2 = Force1 \cdot \frac{Area2}{Area1} = Force1 \cdot \frac{\pi(2r)^2}{\pi r^2}$$

$$Force2 = Force1 \cdot 4$$

Section Review Answers Forces And Fluids

Clifford Lane



Section Review Answers Forces And Fluids:

Reviewing **Section Review Answers Forces And Fluids**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Section Review Answers Forces And Fluids**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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