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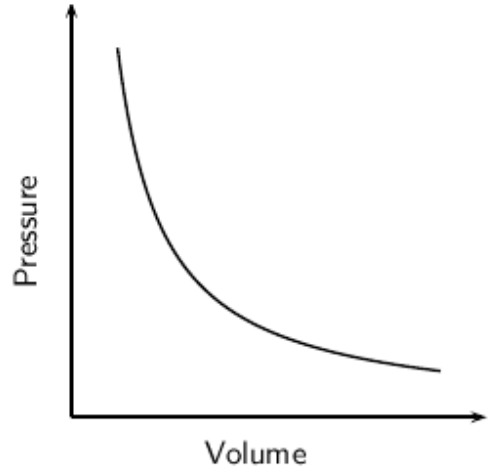
سؤال 1:

G9SC1G-what happens to the volume of a gas if the pressure decrease?



.A. If the pressure increases the volume will be increasing

.B. If the pressure decreases the volume will be increasing

.C. If the pressure decreases the volume will be decreasing

D. no change will happen

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سؤال 2:

G9SC4G-Mercury is a metallic liquid element.

It has a density of 11.3 g/cm^3

If you placed the metals listed above in mercury,

which of the choices below describes what would happen?

	Density in g/cm^3
Aluminium	2.7
Gold	19.3
Iron	7.3
Lead	11.3
Petrol	0.7
Silver	10.5
Water	1.00

.A. All would float

.B. Gold would float, the others would sink

✔.C. All would float except gold

D. All would sink

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سؤال 3:

G9SC2G-The relationship between the temperature and volume of gases can be explained by

A. Charles' law

B. Boyle's Law

C. Archimedes' principle

D. Pascal's Principle

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سؤال 4:

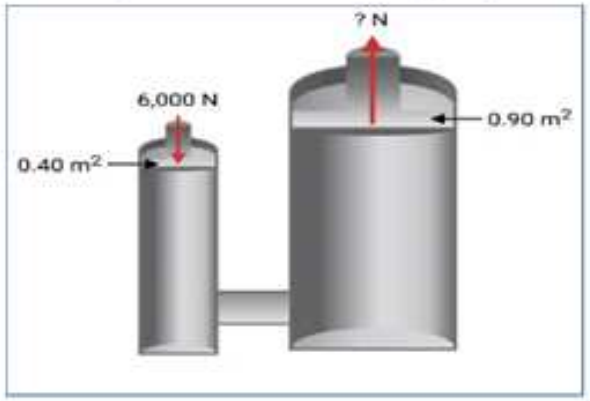
G9SC3G-A hydraulic lift is installed at a garage.

One cylinder has a piston with a surface area of 0.40 m^2

The other has a piston with a surface area of 0.90 m^2

A force of 6,000 N is applied to the smaller piston

Calculate the output force of the larger piston.



A. 13.500 N ✔

B. 2.600 N

C. 10.000 N

D. 3.500 N

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سؤال 5:

الدرجة : 2/2

G9SC5G-Use the table below to answer question:

Which runner has the fastest average speed?

Runner	Distance covered (m)	Time (second)
Mahmoud	90	30
Khaled	120	60
Ahmed	120	40
Saleh	80	20

A. Ahmed

B. Mahmoud

C. Khaled

✔D. Saleh

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