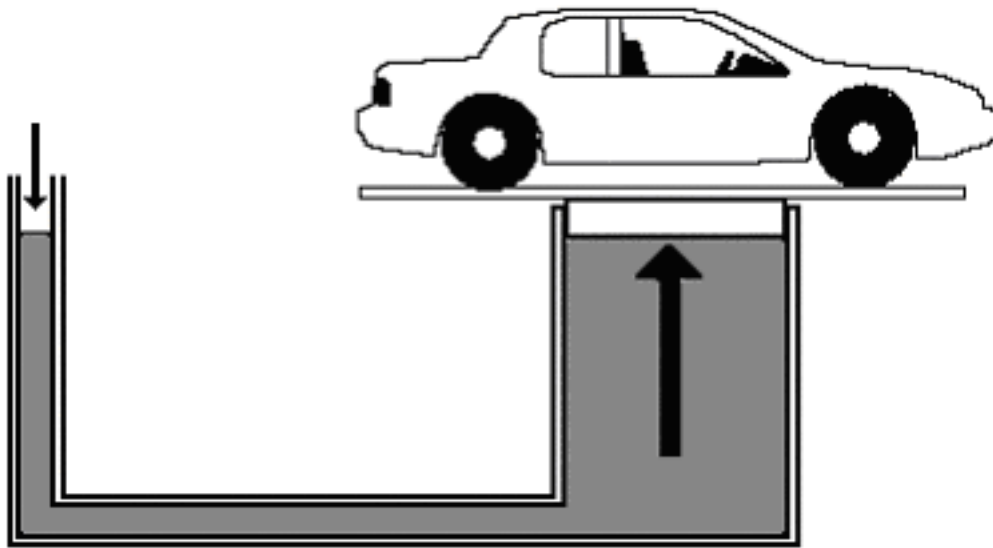


Mechanical Systems

Topic 5 - Hydraulics and Pneumatics Practice Quiz

1. In the illustration below, the area of the small piston on the left is 0.5m^2 and the area of the large piston is 5.5m^2 ,



The mechanical advantage of the illustrated hydraulic lift here would be ...

- 1.1
- 6.0
- 2.5
- 11
2. A 'hovercraft' is a ...
- hydraulic device
 - pneumatic device
 - pneumonic device

hydroelectric device

3. A jackhammer is a pneumatic device that is used to break up the cement or concrete. The ear-splitting sound you are hearing is produced by ...

anvil

piston

the 'chuck'

compressed air

4. A sandblaster is used to improve the look of a building. The high pressure air blasts tiny sand particles to remove the dirt and paint from stone or brick. It is also used on smooth granite and marble stairs to make them...

less shiny

safer by increasing friction

look new

look older than they actually are (antiques)

5. The '**Jaws of Life**', used by firemen to rescue injured people from a crushed car, use three types of tools - including all of the following, **EXCEPT** ...

contractors

spreaders

rams

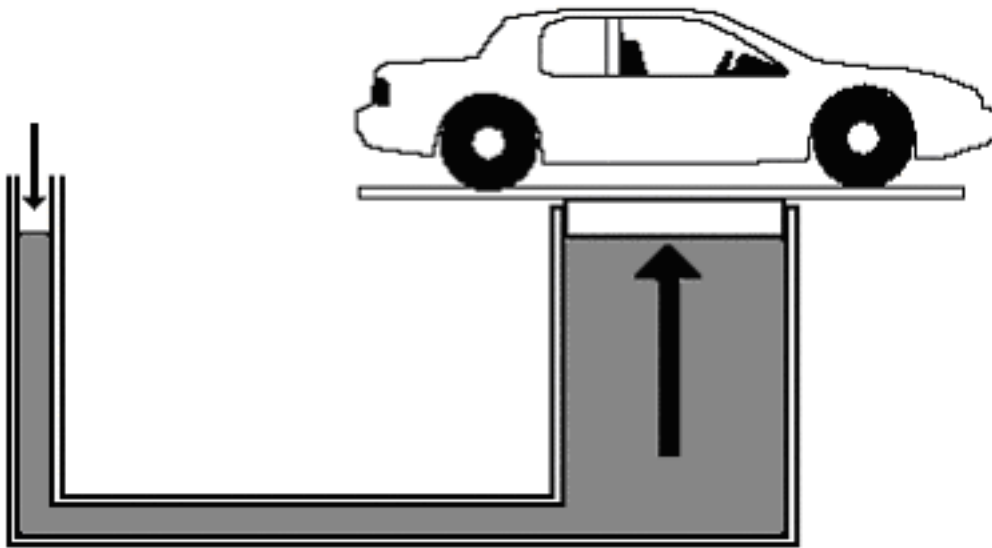
cutters

Check your
Answers

Mechanical Systems

Topic 5 - Hydraulics and Pneumatics Practice Quiz

1. In the illustration below, the area of the small piston on the left is 0.5m^2 and the area of the large piston is 5.5m^2 ,



The mechanical advantage of the illustrated hydraulic lift here would be ...

- 1.1
- 6.0
- 2.5
- 11
2. A 'hovercraft' is a ...
- hydraulic device
 - pneumatic device
 - pneumonic device

hydroelectric device

3. A jackhammer is a pneumatic device that is used to break up the cement or concrete. The ear-splitting sound you are hearing is produced by ...

anvil

piston

the 'chuck'

compressed air

4. A sandblaster is used to improve the look of a building. The high pressure air blasts tiny sand particles to remove the dirt and paint from stone or brick. It is also used on smooth granite and marble stairs to make them...

less shiny

safer by increasing friction

look new

look older than they actually are (antiques)

5. The '**Jaws of Life**', used by firemen to rescue injured people from a crushed car, use three types of tools - including all of the following, **EXCEPT** ...

contractors

spreaders

rams

cutters