

Drag and drop the correct answers to complete the sentence.

Yousef vacuums the carpet in his bedroom. He attaches a hose to the vacuum cleaner to restrict the airflow. This increases the _____ and lowers the _____ of the air.



⛶ acceleration

⛶ velocity

⛶ mass

⛶ force

⛶ pressure

⛶ thermal energy

Drag and drop the correct answers to complete the sentence.

Ahmed is watering his garden. He decides to use a garden hose that has a wider circumference.

As a result of using the wider hose, the:

- speed of the flow of water will _____
- water pressure will _____
- temperature of the water will _____



⛶ increase

⛶ stay the same

⛶ increase then decrease

⛶ fluctuate

⛶ decrease

Bernoulli's principle states that an increase in the _____ of a stream of fluid results in a decrease in the _____ of the fluid.

⛶ distance

⛶ movement

⛶ pressure

⛶ acceleration

⛶ buoyancy

⛶ velocity

Select the correct answer to complete the sentence.

An airplane wing is curved on the top so that it will create _____.



☐

higher air pressure and keep the plane from going too high

☐

lower air pressure and keep the plane from going too high

☐

higher air pressure and push the plane upwards

☐

lower air pressure and push the plane upwards

Complete the table to identify the steps involved in the operation of the paint sprayer.

	Description	Step
	The suction draws the paint from a higher to a lower pressure state.	
	The air thins the paint as it sprays out the nozzle.	
	Compressed air moves at high speed through the hose.	
	This creates a low-pressure area at the top of the tube sitting in the paint.	

1

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