



# ASVAB-SECTION-3<sup>Q&As</sup>

ASVAB Section Three : Mechanical Comprehension

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### QUESTION 1

When you heat water that is confined in a closed container so that the steam cannot escape, the pressure inside the container \_\_\_\_\_ and the temperature of the boiling water \_\_\_\_\_.

- A. increases, decreases
- B. increases, increases
- C. decreases, decreases
- D. decreases, increases

Correct Answer: B

Heating an enclosed container of boiling water increases the pressure of the water vapor (steam) inside the container and increases the temperature of the water.

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### QUESTION 2

What is the state known as equilibrium?

- A. Equilibrium describes the action of two similar forces coming together.
- B. Equilibrium describes the state in which two different items possess equal force, resulting in balance.
- C. Equilibrium describes the action of two opposing forces coming together in a crash.
- D. Equilibrium describes the state created by the coming together of parallel forces.

Correct Answer: B

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### QUESTION 3

An axe is an example of what type of simple machine.

- A. Lever
- B. Inclined plane
- C. Wedge
- D. None of the above

Correct Answer: C

An axe is a classic example of a wedge.

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### QUESTION 4



The force produced when a boxer's hand hits a heavy bag and "bounces" off it is called \_\_\_\_\_.

- A. static electricity
- B. magnetism
- C. recoil
- D. gravity

Correct Answer: C

Recoil occurs when an object producing a force is kicked back.

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#### QUESTION 5

If a force of 200 pounds is exerted over an area of 10-square inches, what's the psi?

- A. 10
- B. 15
- C. 20
- D. 200

Correct Answer: C

You can calculate psi as  $\text{Pressure} = \text{Force}/\text{Area}$ . So, in this problem,  $P = 200/10 = 20$ .

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