

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

ASVAB Section Three : Mechanical Comprehension

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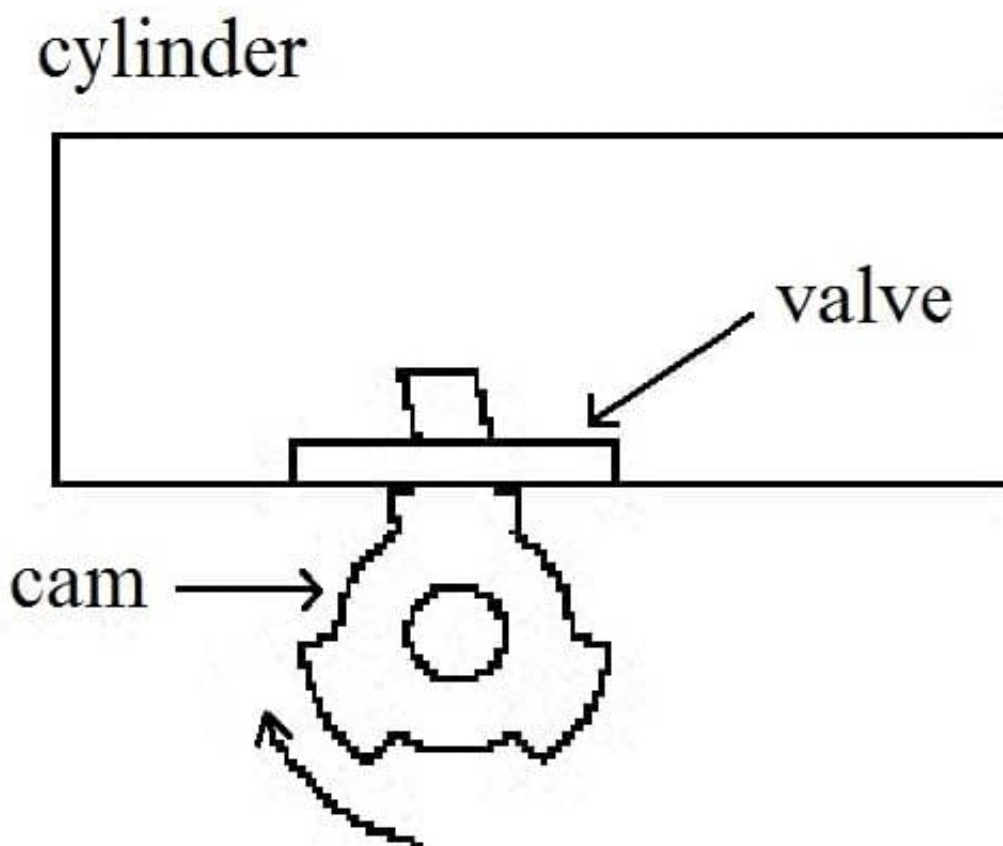
**QUESTION 1**

What is the primary difference between distillation and evaporation?

- A. Distillation separates or purifies liquids, while evaporation changes the form of a substance.
- B. One is intentional in scope, while the other occurs during other practices.
- C. Distillation involves the use of implements, while evaporation only requires heat.
- D. Distillation and evaporation have no primary difference; they are the same process.

Correct Answer: A

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**QUESTION 2**

In the figure above, for each complete revolution the cam makes, how many times will the valve open?

- A. 1
- B. 6
- C. 3

D. 2

Correct Answer: C

The valve will open each time a high point of the cam hits it. The cam has three high points, so the valve will open three times per revolution.

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### QUESTION 3

Which is the best description of centrifugal force?

- A. the force responsible for the changes made to water during distillation.
- B. the response of bodies with inertia to the straight-moving or curved behavior of their container.
- C. the force by which bodies are propelled forward.
- D. the relationship between two opposing forces.

Correct Answer: B

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### QUESTION 4

A block of steel has a density of 0.29 pounds per cubic inch.

If the block has dimensions of 1 inch by 1 inch by 3 inches, what is its weight?

- A. 0.29 pounds
- B. 0.58 pounds
- C. 0.87 pounds
- D. 1.0 pounds

Correct Answer: C

The volume of the block can be calculated by multiplying its length by its width by its height, or 1 times 1 times 3, which equals 3 cubic inches. The weight is the density multiplied by its volume, which is 3 cubic inches multiplied by 0.29 pounds per cubic inch, which equals 0.87 pounds.

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### QUESTION 5

A wood tool, a silver tool, and a steel tool are placed in boiling water for cleaning. Which tool gets the hottest?

- A. steel
- B. wood
- C. silver

D. All three are equally hot.

Correct Answer: C

Silver is the best conductor, so it becomes hottest.

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