



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

ASVAB Section Three : Mechanical Comprehension

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### QUESTION 1

Work input is always more than work output because of \_\_\_\_\_.

- A. gravity
- B. buoyancy
- C. friction
- D. tension

Correct Answer: C

Efficiency is affected by friction. It is a ratio of how much effort went into a job compared to what was produced or outputted. Therefore, work input is more than the work output. Friction accounts for the loss in efficiency.

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### QUESTION 2

The rate at which work is done is called \_\_\_\_\_.

- A. Power
- B. Effort
- C. Watts
- D. Horsepower

Correct Answer: A

The English unit of power is foot pound per second. It takes 550 foot pounds to make 1 horsepower.

The SI unit is the joule per second or watt. A horsepower is 746 watts.

The rate at which work is done is called power. Power is work done per unit of time.

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### QUESTION 3

The center of gravity of a baseball bat would be best described as \_\_\_\_\_.

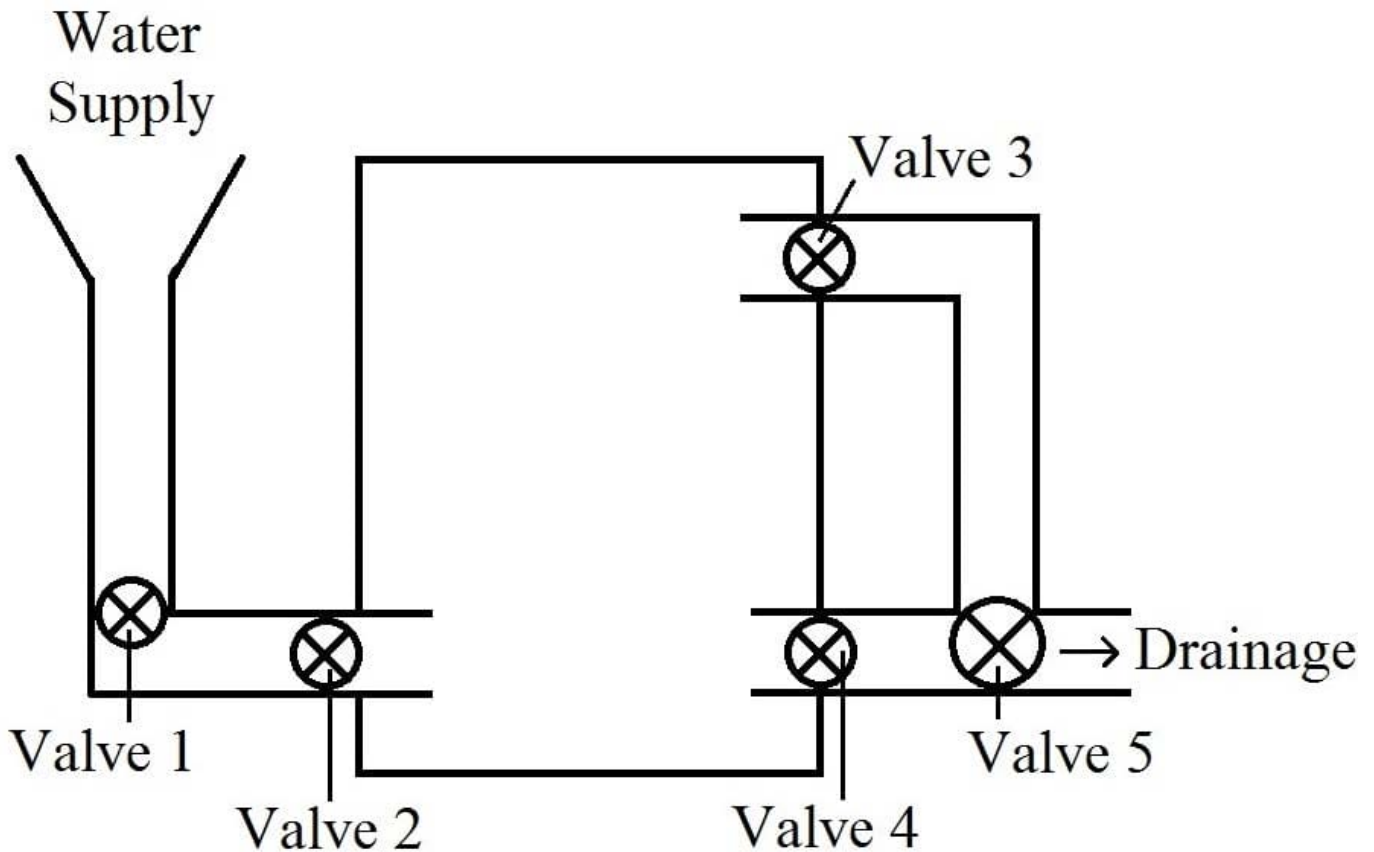
- A. near the skinny end
- B. at the top
- C. near the fat end
- D. near the grip



Correct Answer: C

The center of gravity is the place on an object where there is equal weight on either side.

#### QUESTION 4



In the figure above, assume the valves are all closed.

To fill the tank, but to prevent it from filling entirely, which valves should be open?

- A. 1 and 2 only
- B. 1, 2, and 3 only
- C. 1, 2, and 4 only
- D. 1, 2, 3, and 5 only

Correct Answer: D

Opening Valves 1 and 2 allows water to enter the tank. Opening Valves 3 and 5 prevents water from filling the tank entirely. Opening Valve 4 allows water to leave the tank.

#### QUESTION 5



Universal joints are used to \_\_\_\_\_.

- A. connect ball bearings
- B. fix two shafts so they don't pivot or rotate
- C. connect shafts in a U-shape
- D. couple two shafts set at different angles

Correct Answer: D

Universal joints are used to connect shafts that aren't in the same plane.

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