



ASVAB-SECTION-3^{Q&As}

ASVAB Section Three : Mechanical Comprehension

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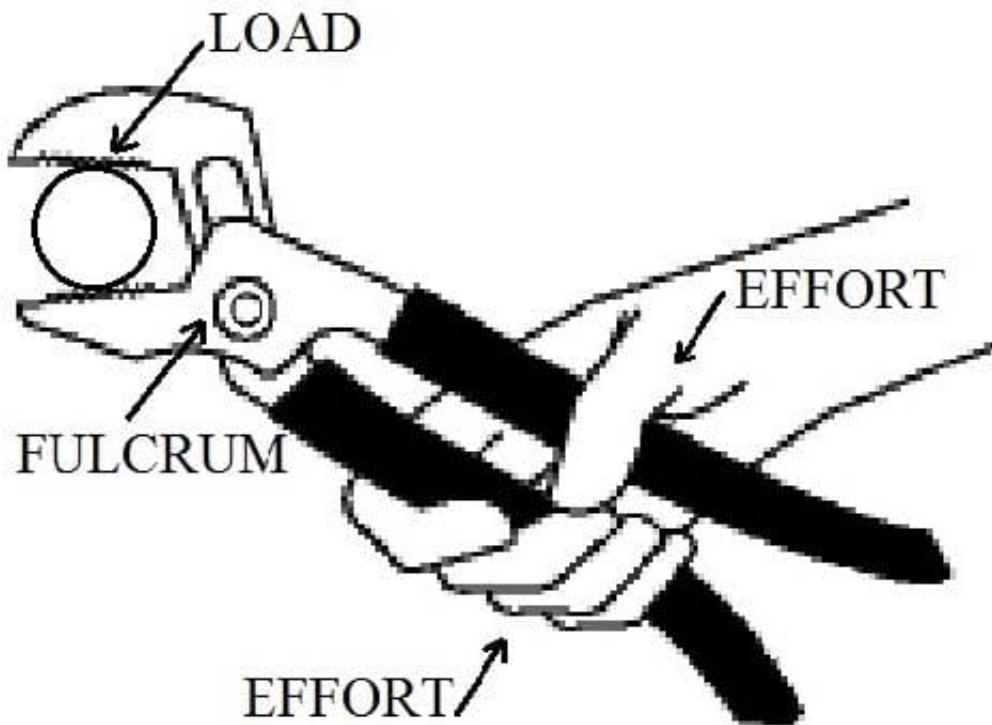
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**QUESTION 1**

Pliers are an example of a _____.



- A. first-class lever
- B. second-class lever
- C. third-class lever
- D. fourth-class lever

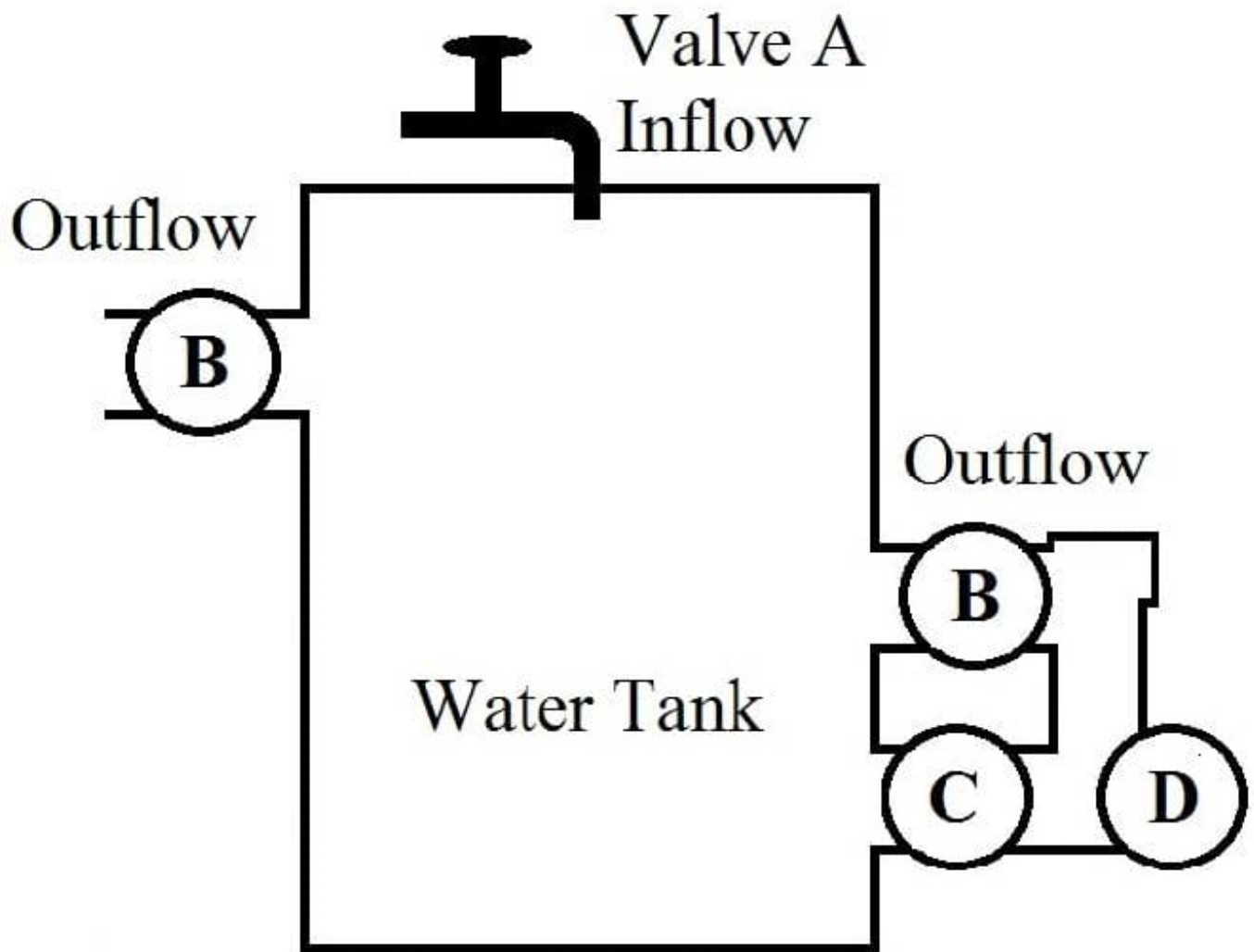
Correct Answer: A

Pliers are an example of a first-class lever because the fulcrum is positioned between the effort (where your hand grips the pliers) and the load (the object that is being held or squeezed by the pliers).

QUESTION 2

In the water system shown below, assume that the main tank starts empty and that all the valves are closed.

In order for the tank to fill about halfway and keep that level, which valves have to be open?



- A. Valves A, B, and C
- B. Valves A, B, and D
- C. Valves A, E, and B
- D. Valves A, E, and C

Correct Answer: B

Valves A, B, and D must be open for the tank to fill halfway and maintain that level.

Water flows in through Valve A (meaning that any choice not including Valve A is automatically incorrect), and flows out when the tank is half full through Valve B.

However, for that water to leave the system Valve D must also be open.

QUESTION 3

A clutch is a type of _____.



- A. universal joint
- B. coupling
- C. gear differential
- D. cam follower

Correct Answer: B

Clutches connect and disconnect parts, so they're a type of coupling.

QUESTION 4

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.

QUESTION 5

The ratio between work output and work input is called _____.

- A. efficiency
- B. work
- C. leverage
- D. mass

Correct Answer: A

In order to find out how well work was performed and how much effort was expended in getting the job done, the term efficiency is used to describe the ratio of work input to work output.

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