



ASVAB-SECTION-3^{Q&As}

ASVAB Section Three : Mechanical Comprehension

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QUESTION 1

A valve is used to perform which of the following functions?

- A. increase the temperature of a liquid
- B. control the flow of a liquid
- C. aid evaporation of a liquid
- D. decrease the density of a liquid

Correct Answer: B

Valves are placed in piping systems and can be opened or closed in order to control the flow of liquids or gasses.

QUESTION 2

Forces existing in pairs are sometimes called _____.

- A. action and interaction
- B. reaction and interaction
- C. action and reaction
- D. friction and gravity

Correct Answer: C

A force cannot be exerted unless there is something there to push back. Forces exist in pairs. For every action there is a reaction.

QUESTION 3

Water in an engine can cause damage in winter weather because _____.

- A. it can vaporize
- B. water expands when it freezes
- C. ice is heavier than water
- D. cold water creates more steam than warm water

Correct Answer: B

Water expands when it freezes, possibly damaging engine components.



QUESTION 4

Which of the following is not a simple machine?

- A. Lever
- B. Inclined plane
- C. Axe
- D. Pulley

Correct Answer: C

An axe is a compound machine: the handle is a lever, and the head is two inclined planes (each side of the blade edge).

QUESTION 5

Which of these statements about force is correct?

- A. The amount of force required to move an object depends on the frictional forces between the object and its surroundings and must be calculated entirely based on individual situations.
- B. The amount of force required to move an object does not depend on frictional conditions and cannot and will not exceed the weight of the object in question.
- C. The amount of force required to move an object depends only on the weight of the object in question.
- D. Force is best used in levered applications.

Correct Answer: A

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