

ASVAB-SECTION-3^{Q&As}

ASVAB Section Three : Mechanical Comprehension

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QUESTION 1

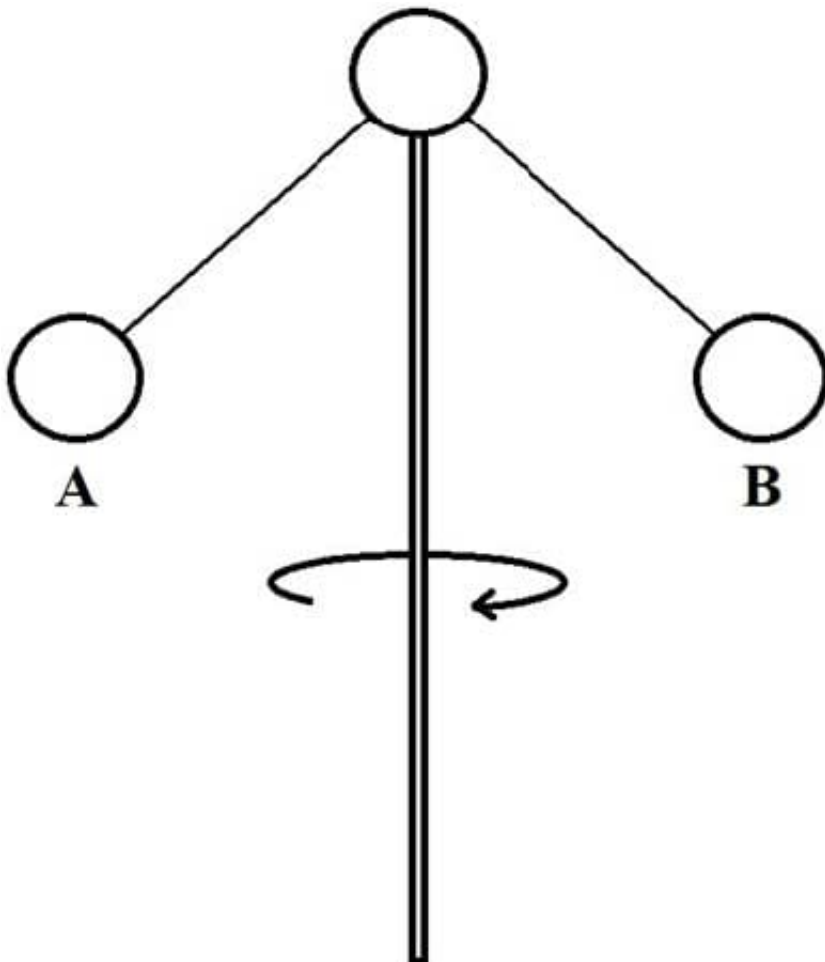
If two workers are carrying a single load with the assistance of a board or plane, how should the load be placed to ensure an entirely equitable division of effort?

- A. The load should be placed the same length from one side as the load is long; i.e. if the load is 3 feet wide, it should be placed 3 feet from the edge of the plane.
- B. The load should be placed directly in the middle of the board or plane to ensure equal labor division between workers.
- C. The cargo should be held directly, rather than placing strain on a board or plane.
- D. The load should be placed closer to one end to prevent bowing of the plane.

Correct Answer: B

QUESTION 2

As the central shaft in the illustration below spins faster in a clockwise direction, the balls labeled A and B will _____.



- A. move outward and downward
- B. move outward and upward
- C. move up
- D. move down

Correct Answer: B

Centrifugal force from the spinning shaft, regardless of direction, will cause the balls to move outward, away from the shaft; the tension on the strings holding them will result in the balls moving upward.

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

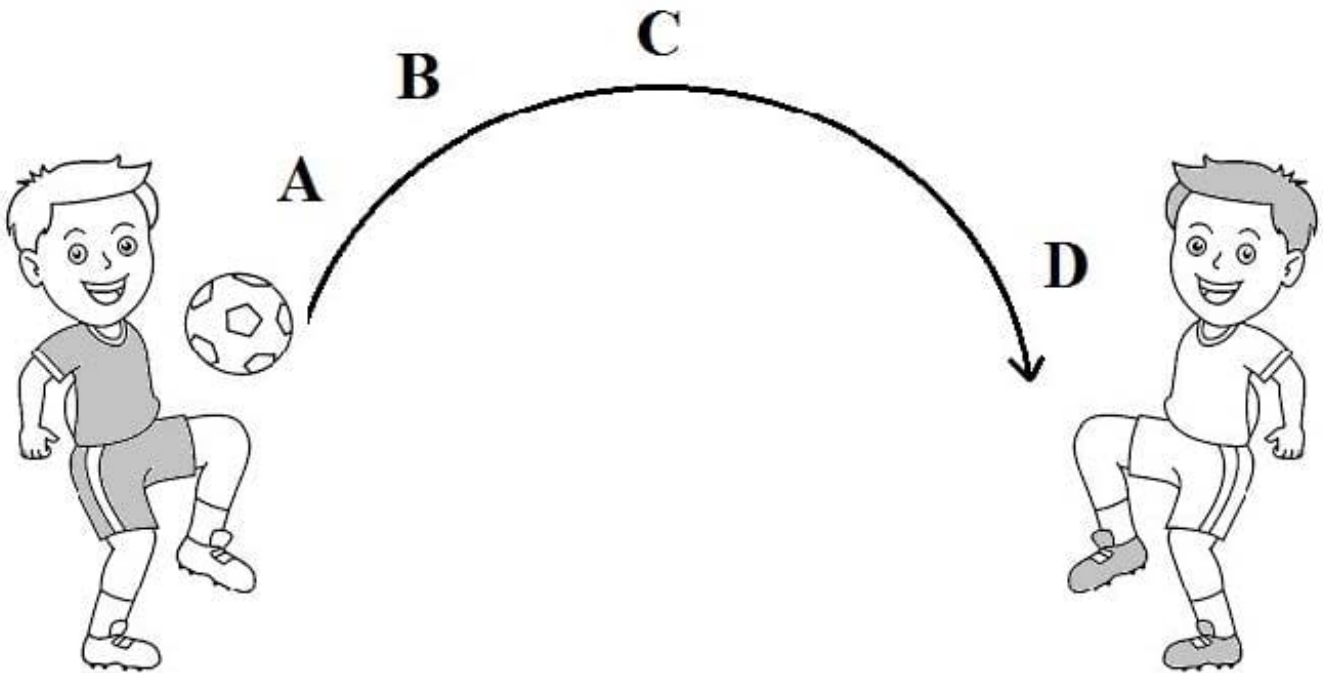
An "inclined plane" is a commonly used implement and has many applications, including handicap access.

What is the most common name for an inclined plane?

- A. A pulley system
- B. A lever
- C. A ramp
- D. A series of gears

Correct Answer: C

QUESTION 5



In the figure above, at what point was the ball traveling most slowly?

- A. A
- B. B
- C. C
- D. D

Correct Answer: C

At the height of the arc, the ball has no upward momentum, so it goes the slowest at that point.

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