



ASVAB-SECTION-3^{Q&As}

ASVAB Section Three : Mechanical Comprehension

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QUESTION 1

The mechanical advantage of two meshing gears is calculated by dividing _____.

- A. the number of teeth on the driving gear by the number of teeth on the driven gear.
- B. the number of teeth on the driven gear by the number of teeth on the driving gear.
- C. the number of teeth on the driving gear by the rotational speed.
- D. the diameter of the driven gear by the number of teeth on the driving gear.

Correct Answer: B

The mechanical advantage of two meshing gears is calculated by dividing the number of teeth on the driven gear by the number of teeth on the driving gear.

QUESTION 2

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 3

What mechanical motion principle do the brakes in a car or on a bicycle use?

- A. friction
- B. centrifugal force
- C. momentum
- D. acceleration

Correct Answer: A

When the brakes are applied, the brake pads rub on the wheel and the frictional force of this rubbing slows down the vehicle.



QUESTION 4

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

QUESTION 5

A compound machine is one in which _____.

- A. a battery provides the force
- B. one simple machine rotates around the second one
- C. two or more simple machines work together
- D. the mechanical advantages can be made to balance each other out

Correct Answer: C

A compound machine is one in which two or more simple machines work together.

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