

ASVAB-SECTION-3^{Q&As}

ASVAB Section Three : Mechanical Comprehension





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QUESTION 1

The amount that a machine (simple or complex) multiplies your force or effort is called _____.

- A. load distance
- B. mechanical advantage
- C. resistance effect
- D. acceleration

Correct Answer: B

The amount that a machine (simple or complex) multiplies your force or effort is called mechanical advantage.

Load distance is how far the load moves when force is applied, and acceleration is the change in velocity or speed in a certain direction.

QUESTION 2

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.

QUESTION 3

An axe is an example of what type of simple machine.

- A. Lever
- B. Inclined plane
- C. Wedge
- D. None of the above

Correct Answer: C

An axe is a classic example of a wedge.

QUESTION 4

How can a gear system derive the greatest amount of mechanical advantage when a seven-tooth gear drives a _____?

- A. 29-tooth gear
- B. 5-tooth gear
- C. 24-tooth gear
- D. 17-tooth gear

Correct Answer: A

The greater the difference between the number of teeth of the two meshed gears, the greater the torque or mechanical advantage.

QUESTION 5

Force is something that can change the velocity of an object by making it _____.

- A. start or stop
- B. speedup
- C. slow down
- D. all of the above

Correct Answer: D

Force is something that can change the velocity of an object by making it start or stop, speed up, or slow down.

This means that all the answers given are correct.

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