



# ASVAB-SECTION-3<sup>Q&As</sup>

ASVAB Section Three : Mechanical Comprehension

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**QUESTION 1**

If you use a lever to lift a 200-pound weight with an effort of 40 pounds, what is the mechanical advantage?

- A. 4
- B. 0.2
- C. 8,000
- D. 5

Correct Answer: D

Mechanical advantage = load/effort = 200/40 = 5

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**QUESTION 2**

What is the primary difference between distillation and evaporation?

- A. Distillation separates or purifies liquids, while evaporation changes the form of a substance.
- B. One is intentional in scope, while the other occurs during other practices.
- C. Distillation involves the use of implements, while evaporation only requires heat.
- D. Distillation and evaporation have no primary difference; they are the same process.

Correct Answer: A

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**QUESTION 3**

The ideal mechanical advantage of a gear is the ratio of the number of teeth in the load gear to the number of teeth in the \_\_\_\_\_.

- A. effort gear
- B. loaded gear
- C. lifting gear
- D. spiral gear

Correct Answer: A

In mechanical devices, gears are used to change torque. The ideal mechanical advantage of a gear is the ratio of the number of teeth in the load gear to the number of teeth in the effort gear.

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**QUESTION 4**



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.

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#### QUESTION 5

Which principle of mechanical motion is used in the design of a roller coaster?

- A. momentum
- B. friction
- C. acceleration
- D. all of the above

Correct Answer: D

Acceleration must be considered in designing the maximum rise of the first hill.

Momentum must be considered to ensure the train gets back to the starting point, since it has no motor.

Friction must be considered in the design of the braking system.

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