



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

ASVAB Section Three : Mechanical Comprehension

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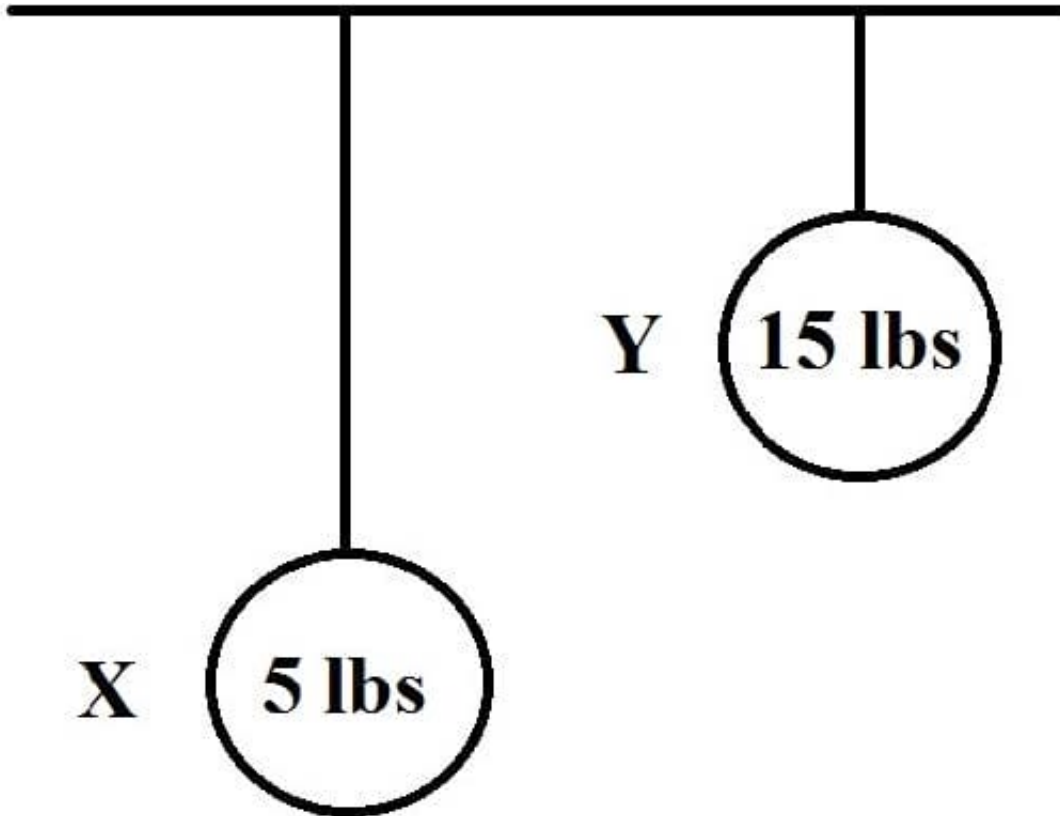
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**QUESTION 1**

Which pendulum takes less time to make one complete back-and-forth swing?



- B. Y
- C. Both take the same amount of time.
- D. There is not enough information to calculate the answer.

Correct Answer: B

The length of time it takes for one all back and forth swing depends on the length of the string, not the weight at the end of it.

**QUESTION 2**

Which of the following statements is true for water flowing from a 4-inch pipe to a smaller 2-inch pipe?

- A. The same amount of water passes through both the 4-inch pipe and the 2-inch pipe.
- B. The pressure is greater in the 2-inch pipe.
- C. More water passes through the 4-inch pipe than through the 2-inch pipe.
- D. The pressure is lower in the 4-inch pipe.



Correct Answer: A

Water cannot be compressed. Therefore, the same amount of water must be flowing through both the 4-inch pipe and the 2-inch pipe.

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### QUESTION 3

Kinetic energy is \_\_\_\_\_.

- A. energy stored in chemicals, such as in a battery.
- B. energy in moving electrons, as in an electric current.
- C. energy in a moving object.
- D. energy that can be released under certain conditions.

Correct Answer: C

Kinetic energy is energy in a moving object.

Energy stored in chemicals, such as in a battery, is chemical energy; energy in moving electrons, as in an electric current, is electric energy; and energy that can be released under certain conditions is potential energy.

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### QUESTION 4

If a water tank on a toilet keeps overflowing, the problem is probably a \_\_\_\_\_.

- A. defective float
- B. clogged pipe
- C. crimped chain
- D. improper seal

Correct Answer: A

The float measures the water level in the tank. If the tank overflows, the float is probably defective.

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### QUESTION 5

On a bicycle there are 30 teeth on the gear sprocket connected to the pedals, and 10 teeth on the sprocket connected to the rear wheels.

If you pedal the bike 12 times, how many times will the rear wheel turn?

- A. 4 times



B. 12 times

C. 24 times

D. 36 times

Correct Answer: D

Since there are 30 teeth on the pedal sprocket, but only 10 teeth on the rear wheel, each revolution of the pedal will turn the rear wheel 3 times.

So 12 revolutions will turn the rear wheel 36 times.

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