



ASVAB-SECTION-3^{Q&As}

ASVAB Section Three : Mechanical Comprehension

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QUESTION 1

Which of the following will happen when a mass of air contracts?

- A. The air remains at the same temperature
- B. The air gets colder
- C. The air gets warmer
- D. The air moves faster

Correct Answer: B

Air is a gas. According to the gas laws, gasses will get colder when they contract.

QUESTION 2

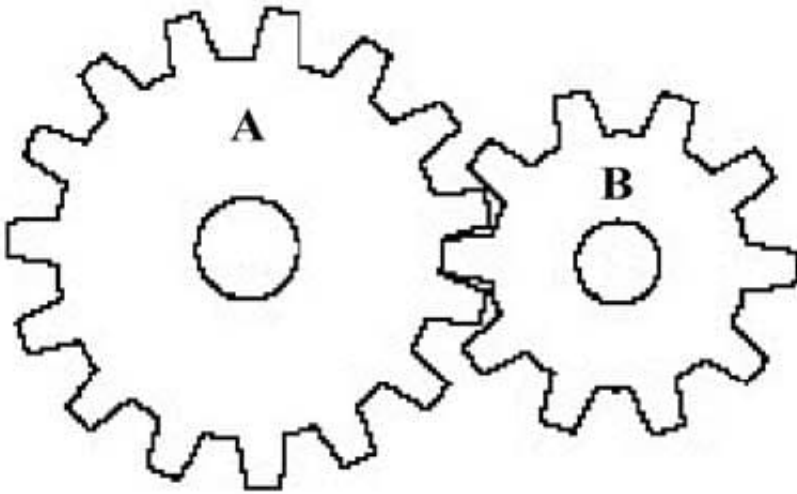
Which of the following statements is true for water flowing from a 4-inch pipe to a smaller 2-inch pipe?

- 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 4inch pipe and the 2-inch pipe.

QUESTION 3



For Gear A and Gear B to mesh properly in the figure above _____.

- A. They must be the same size.
- B. They must turn at different rates.
- C. They must both turn in the same direction.
- D. Their teeth must be of equal size.

Correct Answer: D

Gears of unequal size can mesh properly as long as their teeth are of equal size.

QUESTION 4

When meshing or interlocking gears have different numbers of teeth, _____.

- A. relative speeds depend on the speed of the drive aide for both
- B. both gears will rotate at the same speed
- C. the gear with more teeth will rotate fester than the gear with fewer teeth
- D. the gear with fewer teeth will rotate fester than the gear with more teeth

Correct Answer: D

When meshing or interlocking gears have different numbers of teeth, the gear with fewer teeth will rotate faster than the gear with more teeth.

If two gears are meshed, both cannot be driven or something will break – one must be driving and one must be driven.



QUESTION 5

What is the function of a vise in mechanical applications?

- A. In mechanical applications, vises are used to arrest motion.
- B. Vises are used to suspend quick movements, slowing the effects of conveyor belts.
- C. In mechanical applications, vises are designed to assist movement.
- D. Vises are designed to function as a source of stability, much like how legs function beneath a table.

Correct Answer: A

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