



ASVAB-SECTION-3^{Q&As}

ASVAB Section Three : Mechanical Comprehension

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QUESTION 1

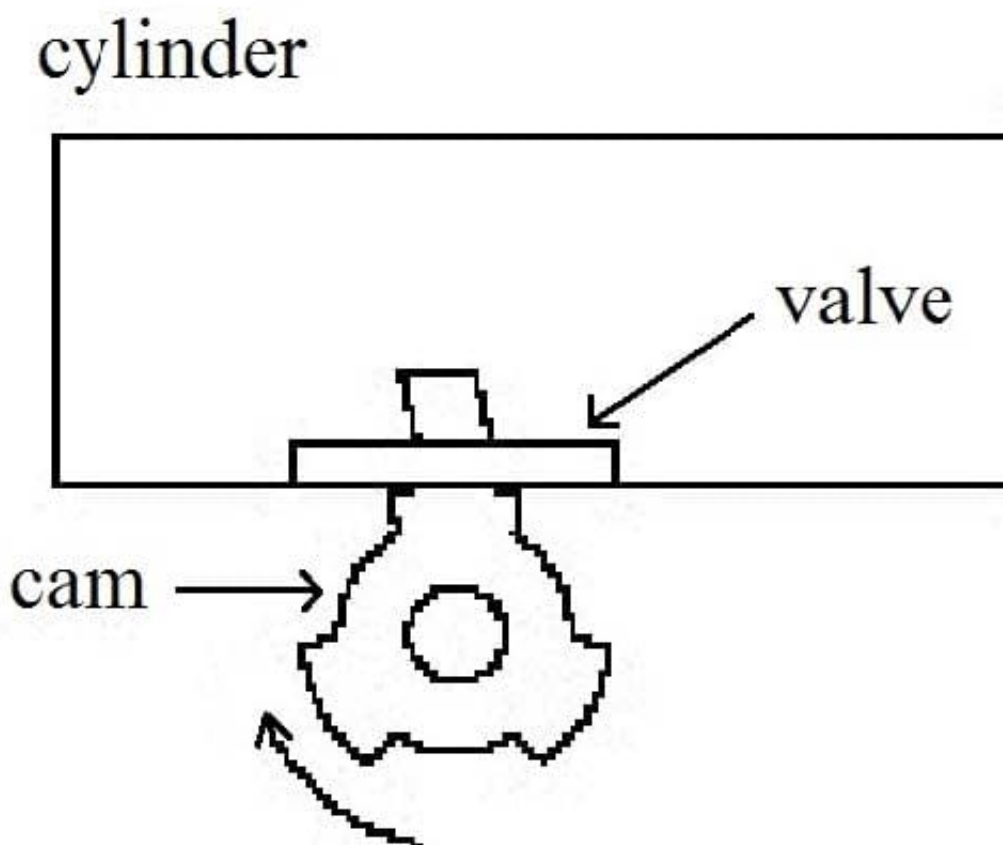
33,000 foot-pounds of work done in one minute is called _____.

- A. a job for an enlisted soldier
- B. one horsepower
- C. 330 psi
- D. meaningful force

Correct Answer: B

Scientists agree that 33,000 foot-pounds per minute is one horsepower.

QUESTION 2



In the figure above, for each complete revolution the cam makes, how many times will the valve open?

- A. 1
- B. 6



C. 3

D. 2

Correct Answer: C

The valve will open each time a high point of the cam hits it. The cam has three high points, so the valve will open three times per revolution.

QUESTION 3

When forces act in pairs they are _____.

- A. equal in magnitude and opposite in direction
- B. equal in magnitude and in the same direction
- C. equal in magnitude
- D. unequal in magnitude

Correct Answer: A

Since it is impossible to have one force unless it acts as one of a pair of forces, it means that these forces must be equal in magnitude and opposite in direction.

QUESTION 4

When you heat water that is confined in a closed container so that the steam cannot escape, the pressure inside the container _____ and the temperature of the boiling water _____.

- A. increases, decreases
- B. increases, increases
- C. decreases, decreases
- D. decreases, increases

Correct Answer: B

Heating an enclosed container of boiling water increases the pressure of the water vapor (steam) inside the container and increases the temperature of the water.

QUESTION 5

Which of the following is not a simple machine?

- A. Lever
- B. Inclined plane



C. Axe

D. Pulley

Correct Answer: C

An axe is a compound machine: the handle is a lever, and the head is two inclined planes (each side of the blade edge).

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