ASVAB-SECTION-3$^{Q\&As}$

ASVAB Section Three : Mechanical Comprehension

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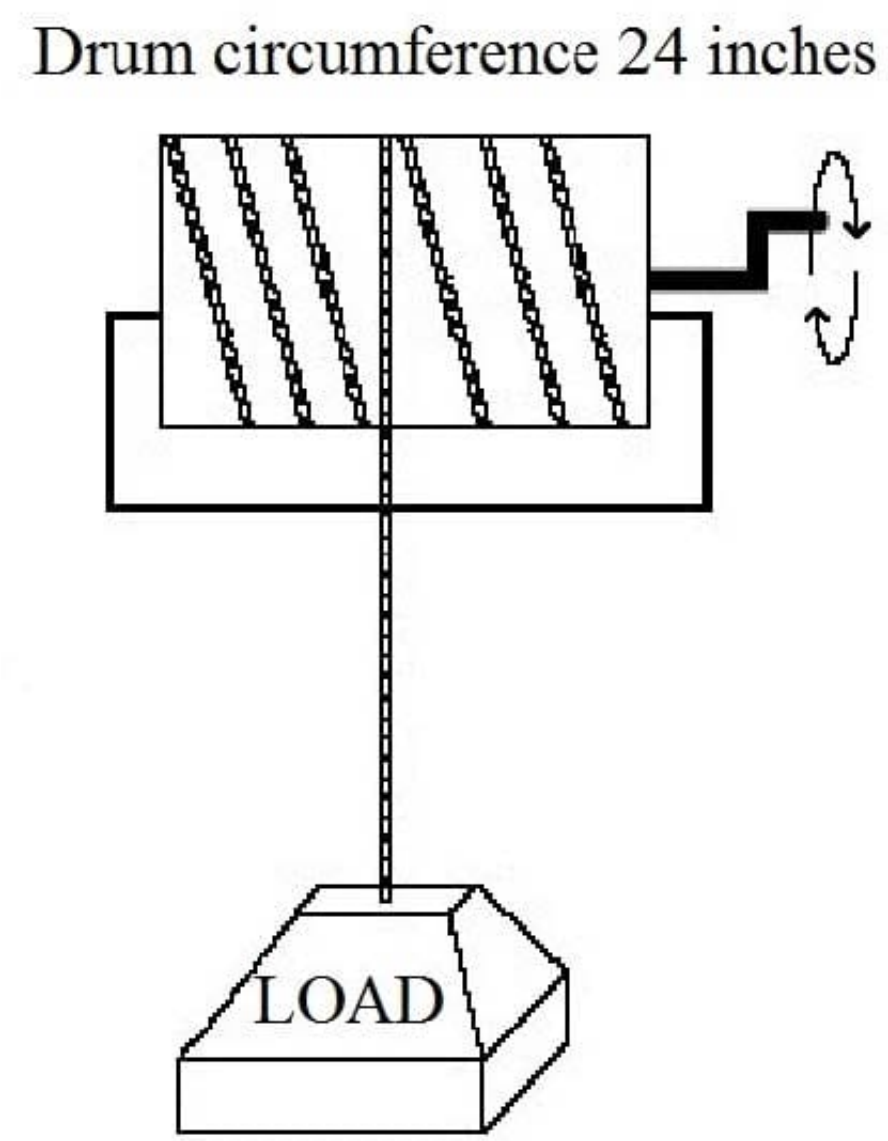
QUESTION 1



With one complete revolution of the cable winch shown above, the load will move _____.

A. 12 inches

B. 6 inches

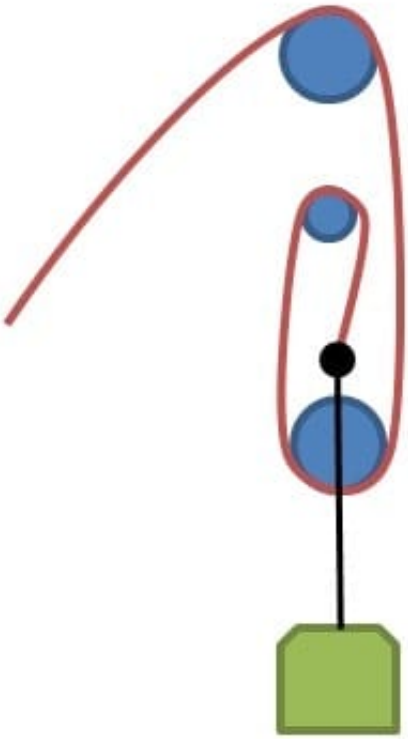
C. 24 inches

D. 36 inches

Correct Answer: C

One revolution of the winch will move the weight 24 inches, the circumference of the winch drum.

QUESTION 2



What is the mechanical advantage of this pulley system?

A. 6

B. 4

C. 3

D. 2

Correct Answer: C

In a pulley system, you calculate the mechanical advantage by counting up the number of supporting

ropes/strands that support the weight.

In this case, there are 3 supporting strands that support the load, so the mechanical advantage is 3.

QUESTION 3

Normally, atmospheric pressure is approximately _____.

A. 14.7 psi

B. 23.2 psi

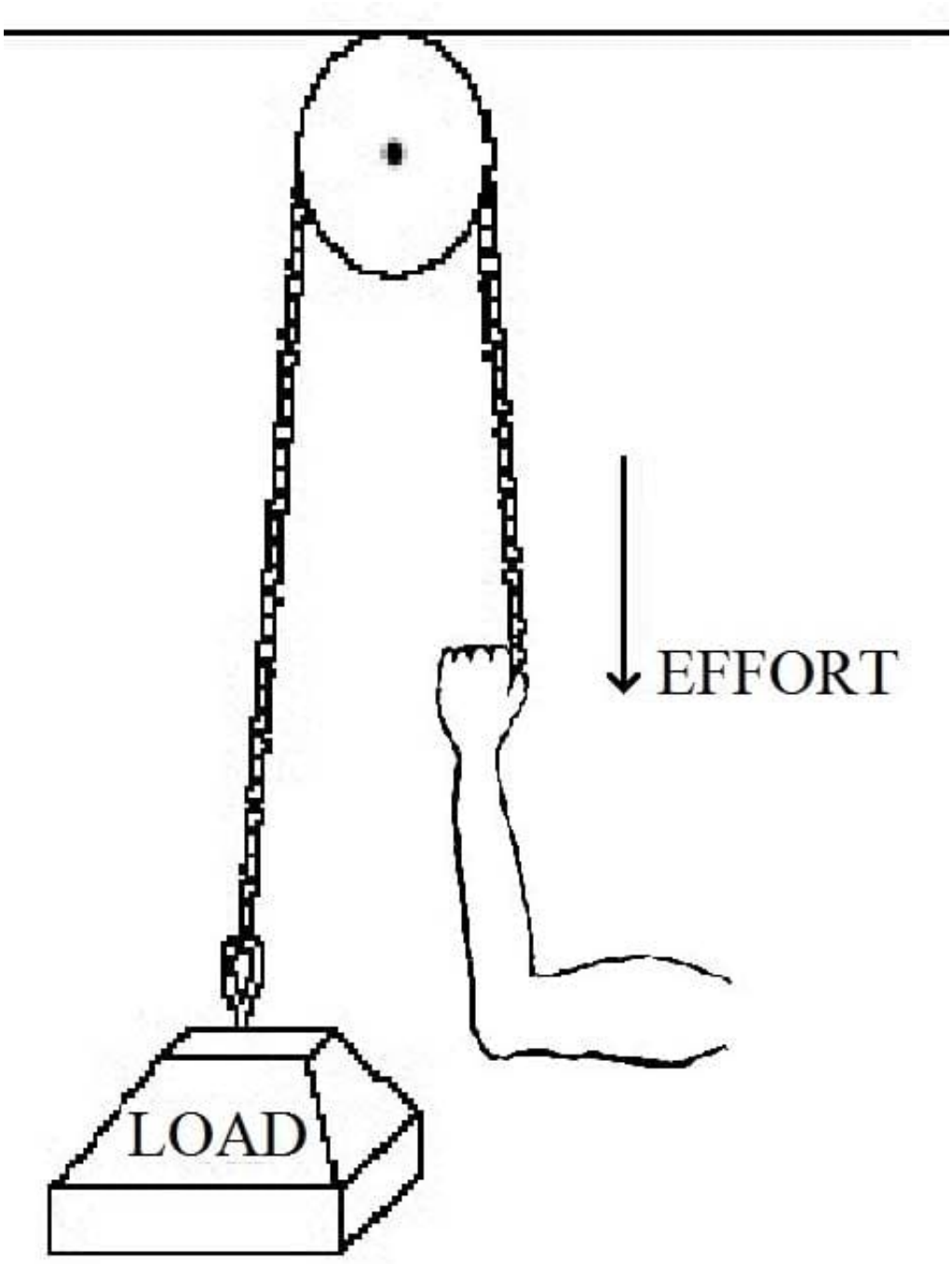
C. 7.0 psi

D. 10.1 psi

Correct Answer: A

"Normal" atmospheric pressure is 14.7 psi.

QUESTION 4



What mechanical advantage does the block and tackle arrangement in the above figure give?

A. 1

B. 3

C. 2

D. 4

Correct Answer: A

A fixed, simple pulley gives no mechanical advantage, so its mechanical-advantage number is 1.

QUESTION 5

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.