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ASVAB Section Three : Mechanical Comprehension

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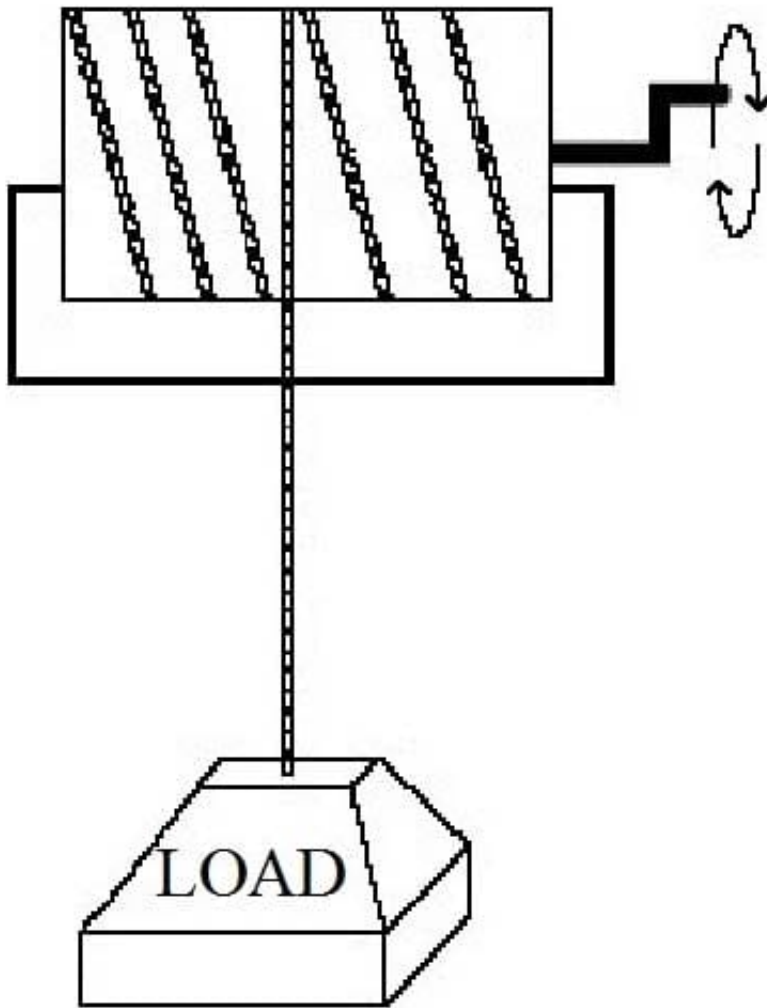## 100% Passing Guarantee
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QUESTION 1

Drum circumference 24 inches

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

An above-ground suburban water tank holds 540 gallons of water when full.

If the tank starts out full and is drained at a rate of 60 gallons per minute, how many seconds will it take to empty out halfway?

A. 54

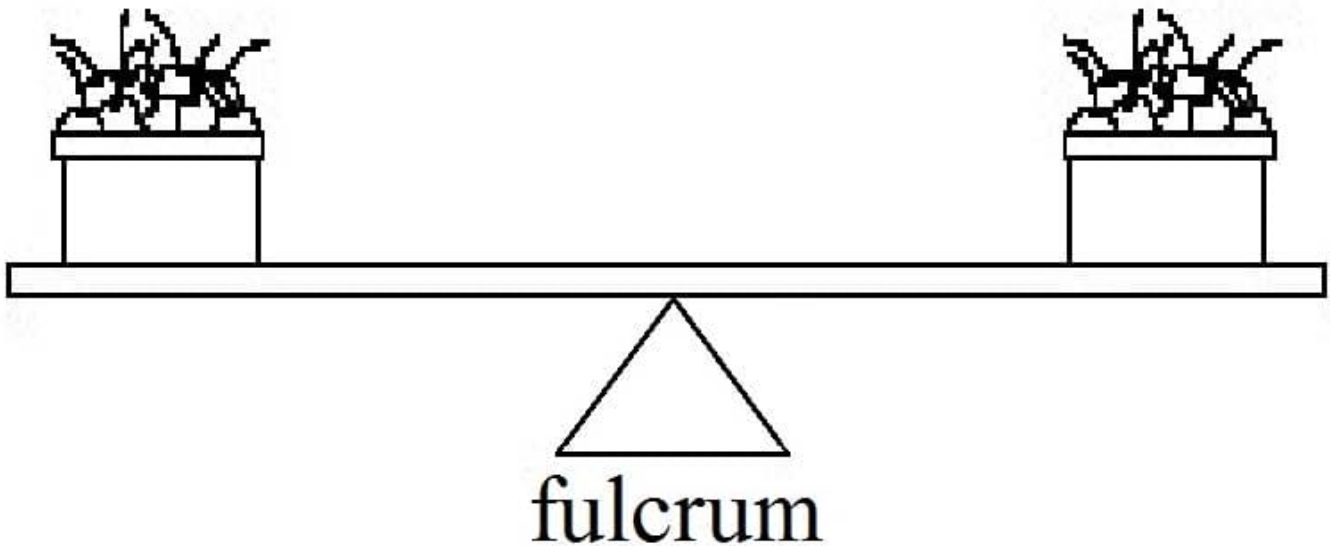B. 240

C. 270

D. 480

Correct Answer: C

540 gallons divided by 60 gallons a minute means that it takes nine minutes to drain the tank completely.

Half of that time is 4.5 minutes; 4.5 multiplied by 60 seconds equals 270 seconds.

QUESTION 3

Basket A   Basket B

fulcrum

The baskets are balanced on the arm in the figure above. If cherries are removed from Basket B, to rebalance the arm _____.

A. The fulcrum will have to be moved to the right.

B. Basket B will have to be moved to the right.

C. Basket A will have to be moved to the left.

D. Basket A will have to be moved to the right.

Correct Answer: D

Moving Basket A to the right counterbalances the loss of cherries from Basket B.

QUESTION 4

Springs are used for the following purposes EXCEPT _____.

A. to store energy for part of a mechanical cycle

B. to force a mechanical component to maintain contact with another component

C. to reduce shock or impact

D. to increase the weight of a mechanism

Correct Answer: D

Springs are used for all the listed purposes except to add weight.

QUESTION 5

Air weighs about 15 psi.

What\\'s the amount of pressure (force) exerted on the top of your head, given a surface area of 24 inches?

A. 360 pounds

B. 625 pounds

C. 5/8 pound

D. 180 pounds

Correct Answer: A

Power equals force divided by area in square inches (P = F?A). This formula can also be stated as F = A ×

P.

Substitute the known quantities. F = 15 × 24 = 360 pounds.

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