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ASVAB Section Three : Mechanical Comprehension

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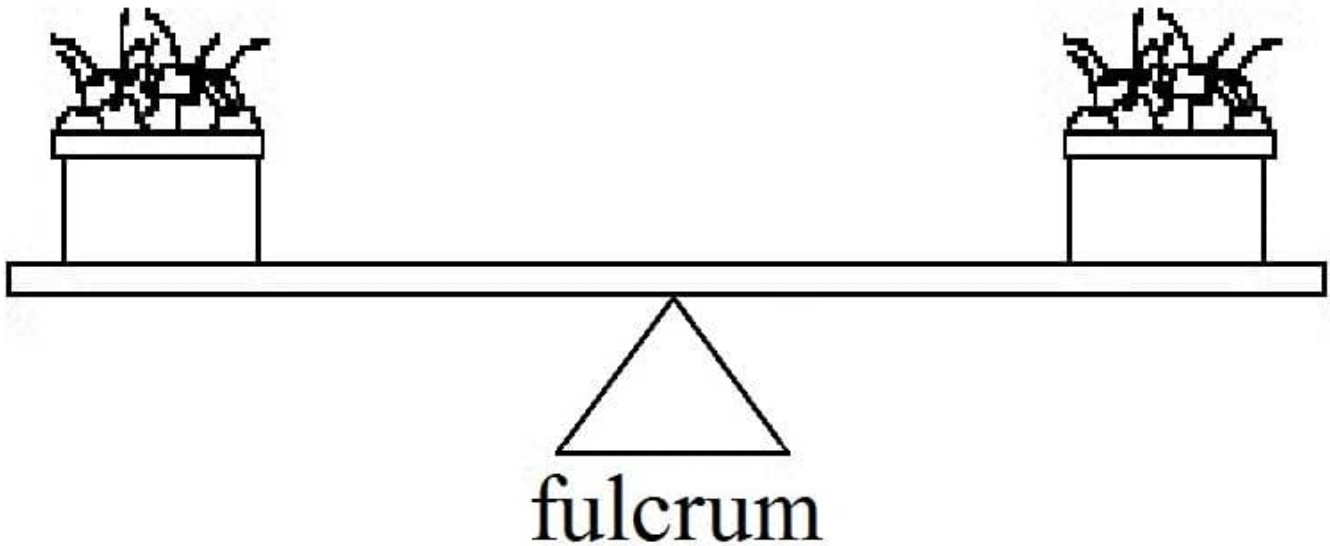🛠 **Instant Download** After Purchase

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QUESTION 1

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 2

Torsion springs _____.

A. produce a direct pull

B. exert no pull

C. produce a twisting action

D. coil but do not uncoil

Correct Answer: C

Torsion springs coil or uncoil and produce a twisting action, not a direct pull.

QUESTION 3

A wood tool, a silver tool, and a steel tool are placed in boiling water for cleaning. Which tool gets the hottest?

A. steel

B. wood

C. silver

D. All three are equally hot.

Correct Answer: C

Silver is the best conductor, so it becomes hottest.

QUESTION 4

A block of steel has a density of 0.29 pounds per cubic inch.

If the block has dimensions of 1 inch by 1 inch by 3 inches, what is its weight?

A. 0.29 pounds

B. 0.58 pounds

C. 0.87 pounds

D. 1.0 pounds

Correct Answer: C

The volume of the block can be calculated by multiplying its length by its width by its height, or 1 times 1 times 3, which equals 2 cubic inches. The weight is the density multiplied by its volume, which is 3 cubic inches multiplied by 0.29 pounds per cubic inch, which equals 0.87 pounds.

QUESTION 5

The brakes on your car use the same force that stops your car if you just let it coast.

This force is called _____.

A. velocity

B. gravity

C. friction

D. newton

Correct Answer: C

Friction is used to stop a car.

The brakes rub against the wheel drum or the disc to cause the car to stop. This rubbing is creating friction.

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