



ASVAB-SECTION-3^{Q&As}

ASVAB Section Three : Mechanical Comprehension

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QUESTION 1

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

QUESTION 2

Forces existing in pairs are sometimes called _____.

- A. action and interaction
- B. reaction and interaction
- C. action and reaction
- D. friction and gravity

Correct Answer: C

A force cannot be exerted unless there is something there to push back. Forces exist in pairs. For every action there is a reaction.

QUESTION 3

Water flows into a container at a rate of 140 gallons per minute. The container has a small opening at the bottom that drains water at a rate of 1 gallon per second.

How long will it take to fill the container to 240 gallons?

- A. 2 min
- B. 3 min
- C. 4 min D. Not enough information

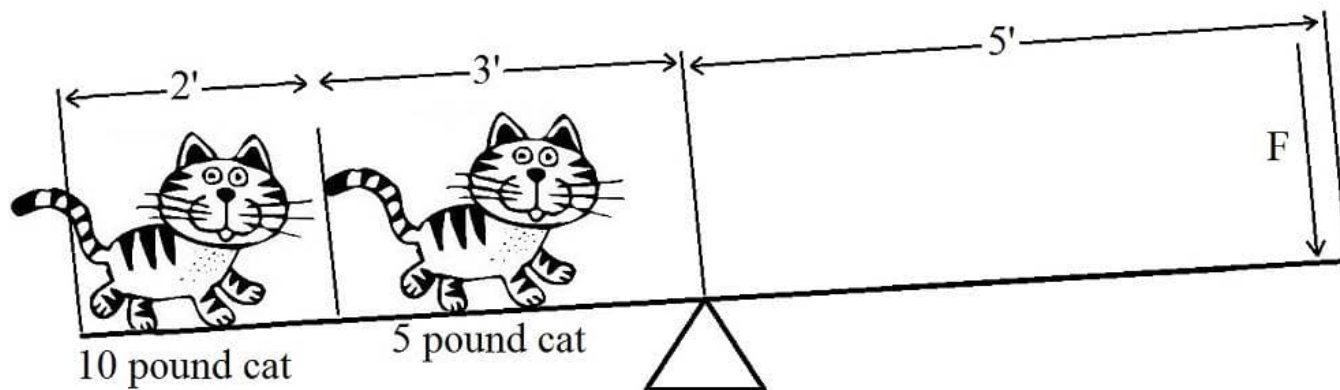
Correct Answer: B

The opening drains water at 1 gallon/second which is equivalent to 60 gallons/min. Therefore, the net gain of water is $140 \text{ gallons/min} - 60 \text{ gallons/min} = 80 \text{ gallons/min}$.

To fill 240 gallons at a rate of 80 gallons/min will take 3 minutes.



QUESTION 4



The amount of force (F) needed to balance the lever in the figure above is most nearly _____.

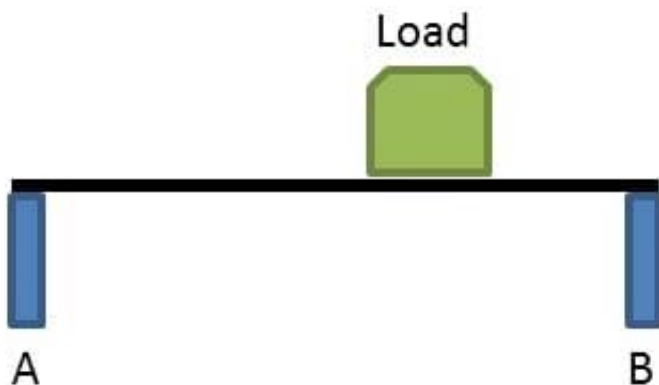
- A. 15 pounds
- B. 13 pounds
- C. 7.5 pounds
- D. 20 pounds

Correct Answer: B

To determine the amount of force exerted by the cats, first multiply the length of the resistance arm (as it applies to the cat) by the weight of each cat and add the products together. The 10-pound cat is supported by the entire weight of the resistance arm, so $5 \times 10 = 50$. The 5-pound cat is being supported by 3 feet of the resistance arm, so $3 \times 5 = 15$. Add them up: $50 + 15 = 65$. This number is equal to the length of the resistance arm times effort (force) or $65 = 5F$. To isolate F, divide both sides by 5: $65 \div 5 = 5F \div 5$ or $13 = F$.

QUESTION 5

In the figure below, what is true about supports A and B?





- A. The load is equal for both supports
- B. Support A carries more weight
- C. Support B carries more weight
- D. Not enough information

Correct Answer: C

Since the load is closer to support B, support B carries more weight.

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