



ASVAB-SECTION-3^{Q&As}

ASVAB Section Three : Mechanical Comprehension

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QUESTION 1

A concrete beam has a maximum strength of 3,000 psi (pounds per square inch). In an experiment, a 500pound weight is placed in the center of the beam, and the stress in the beam is measured to be 1,000 psi.

If the stresses in the beam continue to increase at the same rate with added weight, how much additional weight can be added to the same location on the beam before the beam will break?

- A. 500 pounds
- B. 1,000 pounds
- C. 1,500 pounds
- D. 3,000 pounds

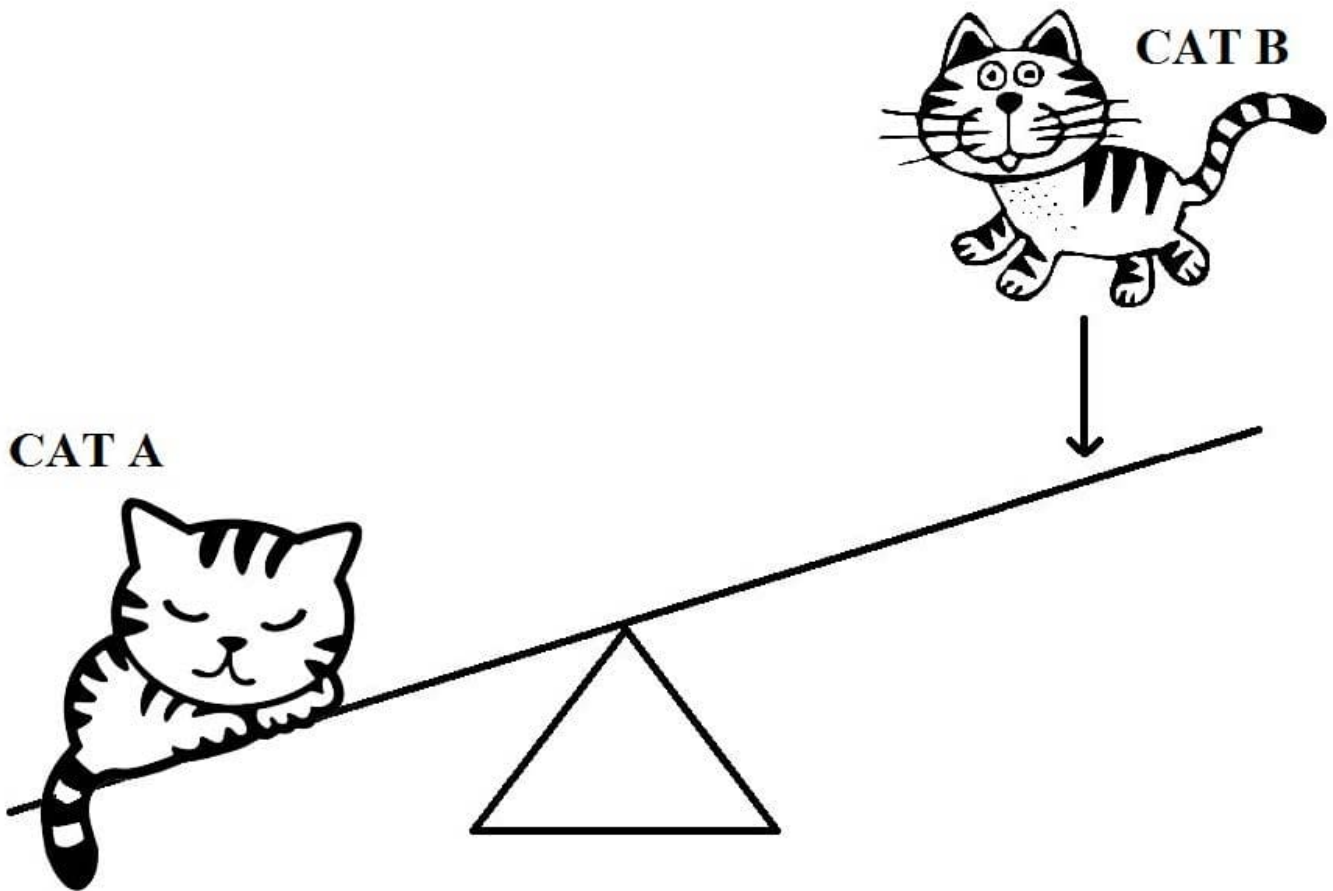
Correct Answer: B

The first 500 pounds generated 1,000 psi of stress in the beam; therefore, 500 more pounds will increase the total stress to 2,000 psi.

Another 500 pounds will increase the stress to 3,000 psi, which we are told is the maximum strength of the beam.

Therefore, the maximum additional load that can be applied to this beam before it breaks is 1,000 pounds.

QUESTION 2



Looking at the figure above, when Cat B lands on the seesaw, Cat A will _____.

- A. remain stationary
- B. hit the ground hard
- C. rise in the air quickly
- D. enter the stratosphere

Correct Answer: C

Cat B landing on the seesaw will propel Cat A into the air.

QUESTION 3

If an object is in equilibrium, it is said to be _____.

- A. at rest
- B. moving
- C. at rest or moving at a constant speed and in a straight line
- D. moving upward only

Correct Answer: C



An object in equilibrium may or may not be at rest. If two or more forces act, their effects may eliminate each other.

When this condition of equilibrium is reached, there is no net force and the velocity does not change.

Equilibrium is reached when the object is at rest or moving at a constant speed and in a straight line.

QUESTION 4

The term equilibrium is defined as _____.

- A. the state in which similar forces attract, causing a swell of movement in a single direction
- B. the principle describing the notion that every action must have a reaction
- C. the state in which opposing forces are balanced
- D. the presence of motion in the present day which serves as a means of understanding movement as a whole

Correct Answer: C

QUESTION 5

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.

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