

ASVAB-SECTION-3^{Q&As}

ASVAB Section Three : Mechanical Comprehension

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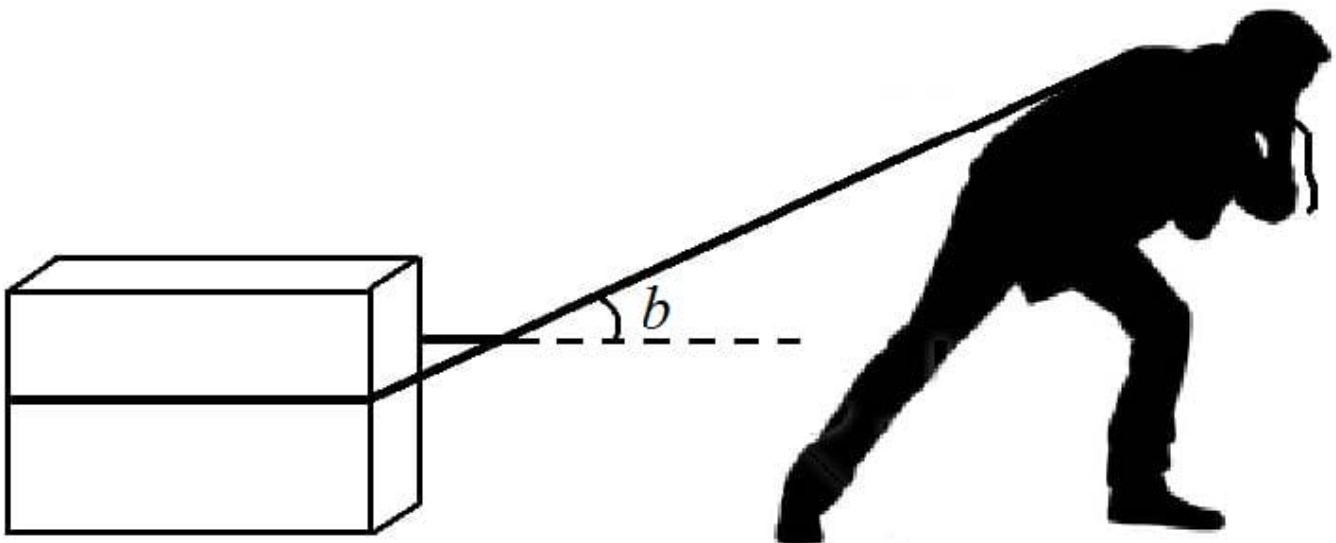
QUESTION 1

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 2

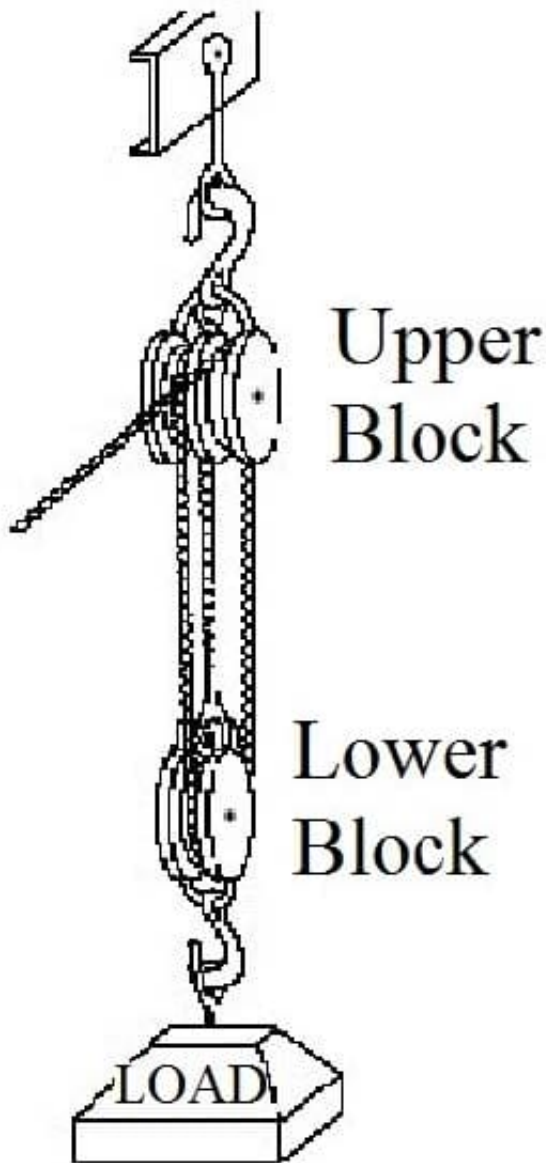
In the figure, the angle b is important, since when it is _____.

- A. 0 degrees the entire force is dragging the box
- B. 90 degrees the entire force is lifting the box
- C. both lifting and dragging between 10 degrees and 90 degrees
- D. all of the above

Correct Answer: D

The angle of the rope determines if the box is being pulled along the floor or being lifted from the floor. That means it can be both lifted and pulled along at any angle that is more than 0 degrees and less than 90 degrees.

QUESTION 3



When the block-and-tackle arrangement shown in the figure above is used to lift a load, all the following parts remain stationary EXCEPT _____.

- A. the upper hook
- B. the upper block
- C. the lower block
- D. none; all the parts move

Correct Answer: C

All the listed parts remain stationary except the lower block.

QUESTION 4

33,000 foot-pounds of work done in one minute is called _____.

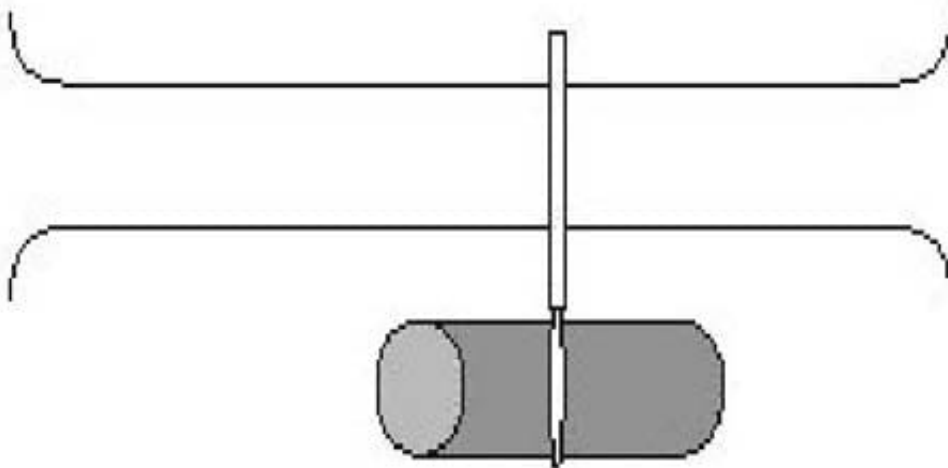
- A. a job for an enlisted soldier
- B. one horsepower
- C. 330 psi
- D. meaningful force

Correct Answer: B

Scientists agree that 33,000 foot-pounds per minute is one horsepower.

QUESTION 5

If you drag a log across the road, one way to reduce the amount of force needed to pull it would be to _____.



- A. use a thicker rope
- B. pull harder
- C. cross at an angle
- D. lubricate the road

Correct Answer: D

If you drag a log across the road, one way to reduce the amount of force needed to pull it would be to lubricate the road.

Two things contribute to the force needed to pull the log across the road: the weight (mass) of the log itself,

and the friction between the log and the road.

Lubricating the road will reduce the friction and therefore reduce the force needed to pull the log across the road.

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