

Name _____

Mechanics of a Pulley

Multiple Choice Questions

1. What is the main purpose of a fixed pulley?
 - a. To provide a mechanical advantage
 - b. To change the direction of force
 - c. To multiply force
 - d. To make tasks more convenient

2. Which type of pulley provides a mechanical advantage?
 - a. Fixed pulley
 - b. Movable pulley
 - c. Block and tackle
 - d. Both fixed and movable pulleys

3. What does a block and tackle system achieve when it comes to lifting heavy loads?
 - a. It simplifies the task.
 - b. It provides a mechanical disadvantage.
 - c. It multiplies the mechanical advantage.
 - d. It has no effect on the force required.

4. How do pulleys make it easier to lift heavy objects?
 - a. By increasing the weight of the object
 - b. By reducing the mechanical advantage
 - c. By changing the direction of the force
 - d. By providing a mechanical advantage

5. In a curtain rod system that uses a pulley, what is the role of the pulley?
 - a. To make the curtain heavier
 - b. To open and close the curtains more smoothly
 - c. To attach the curtains to the wall
 - d. To change the color of the curtains

