

6. **Calculate:** The mechanical advantage of a pulley system is equal to the **output force** ( $F_{out}$ ) divided by the input force ( $F_{in}$ ):

$$MA = \frac{F_{out}}{F_{in}}$$

The input force and output force for each pulley system is shown in the bottom-right corner of the Gizmo. Use the Gizmo to find the input force and output force for each pulley system. In each case, use the same input force that you used to lift the 60-N load.

Pulley system	Input force (N)	Output force (N)	Mechanical advantage
1 fixed	60	60	1
1 fixed, 1 moveable	31	62	2
2 fixed, 2 moveable	16	64	4
3 fixed, 3 moveable	11	66	6

7. **Make a rule:** How is the mechanical advantage related to the total number of pulleys in the pulley system?

The system's total number of pulleys determines the mechanical advantage.

8. **Apply:** Imagine a pulley system with four fixed and four moveable pulleys.

A. What would be the mechanical advantage of this system? 125N

B. Using this system, how much input force would be needed to lift a 500-N load?

Real pulleys probably don't operate at full capacity.

9. **Think and discuss:** So far, you've been working with an "ideal" pulley system. How do you think real pulley systems are different, and how would that affect the mechanical advantage of real pulley systems?

I feel like real pulleys have more factors that affect the pulleys.

# Gizmo Pulley Lab 6 Grade Answers

**Michael Hoelscher**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

## **Gizmo Pulley Lab 6 Grade Answers:**

## Decoding **Gizmo Pulley Lab 6 Grade Answers**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Gizmo Pulley Lab 6 Grade Answers**," a mesmerizing literary creation penned by a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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