

# SHRINKING AND ENLARGING 7 GRADE

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### Shrinking and Enlarging in Grade 7

#### What is shrinking and enlarging?

Shrinking and enlarging are geometric transformations that create a new figure with the same shape as the original but with a different size. Shrinking reduces the size of the original figure, while enlarging increases its size.

#### How do we shrink or enlarge a figure?

To shrink or enlarge a figure, we need to apply a scale factor. A scale factor is a number that determines the ratio between the corresponding sides of the new figure and the original figure. For example, a scale factor of 0.5 would shrink the figure to half its original size, while a scale factor of 2 would enlarge it to double its original size.

#### What is the rule for shrinking and enlarging similar figures?

When shrinking or enlarging similar figures, the ratios of corresponding sides remain the same. This means that the scale factor can be used to determine the length of any corresponding side of the new figure:

- $\text{New side length} = \text{Scale factor} \times \text{Original side length}$

#### How do we solve problems involving shrinking and enlarging?

To solve problems involving shrinking and enlarging, we need to:

1. Determine the scale factor using the given information.
2. Use the rule for shrinking and enlarging similar figures to calculate the corresponding sides of the new figure.
3. Compare the new figure to the original figure to determine if it is shrunk or enlarged.

**Example:**

A rectangle has a length of 6 cm and a width of 4 cm. It is shrunk by a scale factor of 0.5. What are the dimensions of the new rectangle?

**Solution:**

1. Scale factor = 0.5
2. New length =  $0.5 \times 6 \text{ cm} = 3 \text{ cm}$  New width =  $0.5 \times 4 \text{ cm} = 2 \text{ cm}$
3. The new rectangle has a length of 3 cm and a width of 2 cm, which is half the original dimensions. Therefore, the rectangle is shrunk.

**Unidad 2 Etapa 1 Lectura C Answers**

**1. ¿Cuál es el tema principal del texto?**

R: La importancia del tiempo y su gestión efectiva para el éxito personal y profesional.

**2. ¿Qué estrategias sugiere el autor para gestionar eficazmente el tiempo?**

R: Establecer prioridades, planificar con antelación, delegar tareas, eliminar distracciones y utilizar herramientas de gestión del tiempo.

**3. ¿Cuáles son los beneficios de gestionar eficazmente el tiempo?**

R: Mayor productividad, menos estrés, mejor equilibrio entre el trabajo y la vida personal y una mayor sensación de control y satisfacción.

**4. ¿Qué obstáculos suelen dificultar la gestión eficaz del tiempo?**

R: Postergar las tareas, la sobrecarga de trabajo, las interrupciones y la falta de motivación.

## **5. ¿Cómo puede un líder motivar a su equipo para que gestione eficazmente el tiempo?**

R: Al establecer expectativas claras, proporcionar los recursos necesarios, reconocer y recompensar el buen uso del tiempo y crear una cultura que valore la gestión eficaz del tiempo.

### **The Caine Mutiny Book: A Literary Masterpiece**

**What is The Caine Mutiny Book?** Herman Wouk's Pulitzer Prize-winning novel, published in 1951, tells the gripping tale of a mutiny aboard the USS Caine during World War II. It explores themes of authority, loyalty, and the complexities of human behavior under extreme stress.

**What is the Synopsis of The Caine Mutiny Book?** Lieutenant Willie Keith, the novel's protagonist, joins the Caine as its new executive officer. He clashes with the incompetent and unstable Captain Queeg. After a series of command blunders, the officers led by Keith mutiny. The novel follows the subsequent trial by court-martial, where the motives and actions of both Queeg and the mutineers are scrutinized.

### **Who are the Main Characters in The Caine Mutiny Book?**

- Lieutenant Willie Keith: The first-person narrator and a young, ambitious officer.
- Captain Philip Francis Queeg: The unstable and incompetent commander of the Caine.
- Lieutenant Commander Thomas Keefer: The ship's executive officer who remains loyal to Queeg.
- Ensign Willie Seward: A naive and well-intentioned officer who supports the mutiny.

### **What are the Major Themes in The Caine Mutiny Book?**

- Authority and Responsibility: The novel explores the conflicts between personal ethics and the demands of authority.

- **Loyalty and Betrayal:** The characters must grapple with loyalties to their comrades, their ship, and their own principles.
- **The Impact of War:** The novel depicts the psychological and moral toll war takes on individuals and the consequences of actions taken under extreme duress.

**What is the Significance of The Caine Mutiny Book?** The Caine Mutiny Book remains a classic of American literature for its insightful exploration of human nature in times of crisis. It has been adapted into several films, including the 1954 Academy Award-winning movie starring Humphrey Bogart. The novel continues to resonate with readers who are intrigued by the complexities of military life and the timeless themes it raises about authority, loyalty, and the human condition.

### **Solution for Miessler Tarr Inorganic Chemistry**

#### **What is Miessler Tarr Inorganic Chemistry?**

Miessler Tarr Inorganic Chemistry is a highly regarded textbook designed for advanced undergraduate and graduate students studying inorganic chemistry. It covers a comprehensive range of topics, including the structure, bonding, and reactivity of inorganic compounds.

#### **Q: What are the strengths of Miessler Tarr Inorganic Chemistry?**

A: Miessler Tarr Inorganic Chemistry is renowned for its:

- Clear and concise writing style
- Up-to-date coverage of research and developments
- Emphasis on conceptual understanding
- Abundance of illustrative examples and practice problems

#### **Q: What are the challenges of using Miessler Tarr Inorganic Chemistry?**

A: The textbook can be challenging due to:

- Its advanced content, which requires a strong foundation in general chemistry

- The large number of concepts and terminology introduced
- The need for independent study and problem-solving

**Q: How can I overcome the challenges of using Miessler Tarr Inorganic Chemistry?**

A: To succeed with Miessler Tarr Inorganic Chemistry, it is recommended to:

- Attend lectures regularly and review material thoroughly
- Participate actively in discussions and problem-solving sessions
- Utilize available resources such as online videos, study guides, and online forums
- Seek assistance from the instructor or a tutor when needed

**Q: What are the benefits of studying Miessler Tarr Inorganic Chemistry?**

A: Miessler Tarr Inorganic Chemistry provides students with:

- A strong foundation in the principles and applications of inorganic chemistry
- Enhanced problem-solving and critical thinking skills
- A solid preparation for careers in inorganic chemistry, materials science, and related fields

**Conclusion**

Miessler Tarr Inorganic Chemistry is an essential resource for students pursuing advanced inorganic chemistry studies. While challenging, it offers invaluable knowledge and skills that equip students for success in their academic and professional endeavors. With dedication, perseverance, and effective study habits, students can overcome the challenges and maximize the benefits of this comprehensive textbook.

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