

# SATURATED AND UNSATURATED SOLUTIONS POGIL ANSWER KEY

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### Understanding Saturated and Unsaturated Solutions with POGIL Answer Key

**Question 1:** What is a saturated solution? When is a solution considered saturated?

**Answer:** A saturated solution is one in which no more solute can be dissolved at a given temperature. It occurs when the equilibrium between dissolved and undissolved solute is reached.

**Question 2:** How do you know if a solution is unsaturated? **Answer:** An unsaturated solution is one that can dissolve additional solute without reaching equilibrium. This means that there are more solvent molecules available to dissolve the solute.

**Question 3:** What happens when you add more solute to a saturated solution?

**Answer:** When excess solute is added to a saturated solution, the additional solute will not dissolve. Instead, the excess solute will form a solid precipitate at the bottom of the container.

**Question 4:** What is the difference between a concentrated and a dilute solution?

**Answer:** A concentrated solution has a high concentration of solute, while a dilute solution has a low concentration of solute. The amount of solute dissolved in a given amount of solvent determines the concentration.

**Question 5:** How can you calculate the molarity of a solution? **Answer:** The molarity of a solution is calculated by dividing the number of moles of solute by the volume of the solution in liters. The molarity can be used to determine the concentration of a solution.

## **The Computer: An Illustrated History from Its Origins to the Present Day**

**Q: What is the earliest known computing device?** A: The abacus, a simple instrument for performing arithmetic operations, dating back to ancient times.

**Q: When did the first mechanical computer emerge?** A: In 1642, Blaise Pascal invented the mechanical calculator, the Pascaline, which could perform addition and subtraction.

**Q: Who is considered the father of modern computing?** A: Charles Babbage, a 19th-century English polymath, designed the Analytical Engine, which laid the foundation for the modern computer.

**Q: How did the computer come into widespread use?** A: The invention of the transistor in 1947 revolutionized computing, reducing the size and power consumption of electronic devices and enabling the development of personal computers.

**Q: What are the key milestones in computer history?** A:

- 1951: UNIVAC I, the first commercial computer
- 1977: Apple II, the first mass-produced personal computer
- 1981: IBM PC, which popularized the MS-DOS operating system
- 1983: Lisa, the first graphical user interface (GUI)
- 1990: World Wide Web, opening up the internet to the public

## **The City of Stella Gemmell: Unveiling Its Enigmatic Allure**

### **What is the City of Stella Gemmell?**

The City of Stella Gemmell is a fictional metropolis created by renowned fantasy author Stella Gemmell. Nestled amidst a treacherous mountain range, it is known for its labyrinthine streets, towering spires, and a rich tapestry of cultures and mysteries.

### **Who Inhabits the City?**

The enigmatic inhabitants of Stella Gemmell include humans, elves, dwarves, and a myriad of other fantastical beings. Each race possesses unique customs, beliefs, and intricate relationships that intertwine throughout the city's tapestry.

### **What are the City's Key Features?**

Stella Gemmell boasts an array of striking landmarks, including the White Cathedral, a towering edifice of ethereal beauty, and the Serpent's Tongue, a labyrinthine passageway where secrets whisper. The city also teems with guilds, academies, and hidden societies, each with its own agenda.

### **What are the Challenges Facing the City?**

Despite its vibrant allure, Stella Gemmell grapples with myriad challenges. Ancient feuds simmer beneath the surface, threatening to erupt into open conflict. The rise of dark forces threatens to consume the city, testing the limits of its resilience.

### **Why is the City so Captivating?**

The City of Stella Gemmell captivates readers with its intricate worldbuilding, immersive storytelling, and compelling characters. It is a realm where darkness and light clash, and where the boundaries between good and evil blur. Through its trials and triumphs, Stella Gemmell invites readers on an unforgettable literary journey.

## **Subnetting Questions and Answers: A Comprehensive Explanation**

**Question 1: What is subnetting?** Answer: Subnetting is the process of dividing a single network into smaller logical networks called subnets. It allows organizations to improve network efficiency, security, and flexibility.

**Question 2: What are the benefits of subnetting?** Answer: Benefits of subnetting include improved network performance, enhanced security, easier network management, reduced broadcast traffic, and increased network redundancy.

**Question 3: How is subnetting implemented?** Answer: Subnetting is implemented by borrowing bits from the host portion of the IP address. The borrowed bits create a subnet mask, which defines the boundaries of each subnet within the network.

**Question 4: What is the difference between a subnet mask and a network mask?** Answer: A subnet mask is used for dividing a network into subnets, while a network mask is used for determining the network address and host addresses within a particular subnet.

**Question 5: What are the steps involved in subnet calculation?** Answer: Subnet calculation involves the following steps:

1. Determine the number of subnets needed.
2. Calculate the subnet mask using the number of subnets.
3. Divide the network address into subnet addresses.
4. Assign IP addresses to hosts on each subnet.

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