

4565: Computing Foundations for a Digital Age

Unit 1

Computer Concepts and Digital Literacy

Unit 1 PRETEST

Name _____ Class Period: _____

1. Which of the following best describes an **algorithm**?
 - a) A computer hardware component
 - b) A step-by-step procedure for solving a problem
 - c) A type of computer virus
 - d) A digital storage device
2. Your **digital footprint** refers to:
 - a) The physical size of your computer
 - b) The trail of data you leave when using the internet
 - c) The number of steps you take while using technology
 - d) The amount of storage space on your device
3. The **CPU (Central Processing Unit)** is often called the "brain" of the computer because:
 - a) It's located at the top of the computer
 - b) It processes and executes instructions
 - c) It stores all the computer's memory
 - d) It controls the computer's display
4. Which **number system uses only 0s and 1s** to represent all information in a computer?
 - a) Decimal
 - b) Binary
 - c) Hexadecimal
 - d) Roman numerals
5. **Software** can be best described as:
 - a) The physical parts of a computer
 - b) Programs that tell the computer what to do
 - c) The computer's power supply
 - d) The computer's memory storage
6. When describing an **algorithm** to make a sandwich, which **sequence** is most logical?
 - a) Eat sandwich → Get bread → Add ingredients → Put pieces together
 - b) Get bread → Add ingredients → Put pieces together → Eat sandwich
 - c) Put pieces together → Get bread → Add ingredients → Eat sandwich
 - d) Add ingredients → Eat sandwich → Get bread → Put pieces together

7. Which of these activities would NOT contribute to your **digital footprint**?
- a) Writing in a paper diary
 - b) Posting on social media
 - c) Sending emails
 - d) Shopping online
8. Which best describes the relationship between **software and the CPU**?
- a) Software gives instructions that the CPU executes
 - b) The CPU creates software
 - c) Software and CPU are the same thing
 - d) The CPU stores software permanently
9. How is **binary code different** from regular numbers?
- a) Binary can only represent simple numbers
 - b) Binary uses only 0s and 1s to represent all data
 - c) Binary can only be used for text
 - d) Binary is only used for graphics
10. What is the most appropriate **sequence** for how a **computer processes information**?
- a) Output → Input → Processing → Storage
 - b) Processing → Input → Storage → Output
 - c) Input → Processing → Output → Storage
 - d) Storage → Output → Input → Processing

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Answer Key:

1. b
2. b
3. b
4. b
5. b
6. b
7. a
8. a
9. b
10. c

This quiz tests understanding of key computer concepts while requiring students to think critically about relationships between components and logical sequences. The questions go beyond simple definitions to assess comprehension of how these elements work together in real-world applications.