**Worksheet 1: Exploring the World Wide Web**

#### **Activity 1: Match the Terms**

**Instructions:** Match the terms in **Column A** to their correct definitions in **Column B**.

|  |  |
| --- | --- |
| **Column A** | **Column B** |
| **1. HTTP** | A. A system for locating resources on the web using addresses. |
| **2. URL** | B. The protocol for transferring data on the World Wide Web. |
| **3. HTML** | C. A program used to access and display web pages. |
| **4. Browser** | D. A markup language used to structure content on web pages. |

#### **Activity 2: Draw the Web Request/Response Cycle**

**Instructions:**  
Using the information provided below, draw a diagram that illustrates the **web request/response cycle**. Your diagram should include the following components and their connections:

1. **Browser** (represents the user sending a request).
2. **HTTP Request** (the request sent by the browser to the server).
3. **Web Server** (receives and processes the request).
4. **HTTP Response** (the response sent by the server back to the browser).
5. **Browser** (receives the response and displays the web content).

**Additional Guidelines:**

* Use arrows to show the direction of the communication.
* Label each component clearly.
* Indicate what happens at each step (e.g., "User sends a request," "Server processes the request").

**Hint:** Your diagram should depict the flow starting from the user’s browser, through the web server, and back to the browser.

#### **Activity 3: Short Answer Questions**

**Instructions:** Answer the following questions in the space provided.

1. **What is the role of a web browser?**  
   Your Answer:  
   (Hint: Think about how browsers interact with web servers to retrieve and display content.)
2. **What is the difference between HTTP and HTTPS?**  
   Your Answer:  
   (Hint: Consider security features and encryption.)
3. **Define a URL and describe its components.**  
   Your Answer:  
   (Hint: Mention protocol, domain name, and path.)
4. **What does the term "World Wide Web" refer to?**  
   Your Answer:  
   (Hint: Discuss interconnected web resources and their access through the internet.)

#### **Activity 4: Bonus - True or False**

**Instructions:** Mark each statement as **True (T)** or **False (F)**.

1. The World Wide Web is the same as the internet. **( )**
2. HTTP stands for Hypertext Transfer Protocol. **( )**
3. HTML is a programming language. **( )**
4. URLs uniquely identify resources on the web. **( )**