CIS 375
COMPUTER NETWORKING AND TELECOMMUNICATIONS

Dr. Mahaney

Background

- Name:

- Major:

- Planned Graduation Date:

- High School Attended:

- Career Goals:

- Dream Job:

Binary Numbers

- The binary number 0100 means 4, and the binary number 1000 means 8.

- What does the binary number 1100 mean?

- What is the binary number that means 6?

Search Engines

- List 3 search engines.

    - 1)

    - 2)

    - 3)

Social Media

- What is your favorite social media site?

Browsing

- What is a cookie?

- How can you know whether a website uses encryption?

Addressing

- In Windows, what will happen when the user types CTRL + ALT + DEL ?

- Provide an example (real or fake) of an IP address:

- What is an IP address used for?

- What is a MAC address?

Telecommunication

- Who invented the telephone?

- What year was the telephone invented?

OSI 7-Layer Model

- List the layers of the 7-layer OSI model.
- 7)
- 6)
- 5)
- 4)
- 3)
- 2)
- 1)

Linux / Unix

- What is a popular version of Linux?

- What is your favorite version of Linux?

PC

- Does your personal computer run Windows or Mac?

- Which version of the operating system does your personal computer run?

- What is the Windows command to display an IP Address?

- What is the Unix/Linux/Mac command to display an IP Address?

Background

- Dr. Robert C. Mahaney, Ph.D.
- Morehead State University (1984)
  - Math and Computer Programming
- AT&T Communications
  - COBOL Programming
- Blue Cross and Blue Shield of Kentucky
  - Programmer/Analyst; LAN Administrator; Data Administration
- University of Kentucky
  - Masters in Mathematics (1995)
  - PhD in Information Systems (2000)

Teaching

- Ivy Tech – Indiana
- University of Kentucky – Math and IS
- Midway College
- Sullivan University
- Northern Kentucky University
- Eastern Kentucky University

Syllabus

- Learning Objectives
- Textbook
- Grading Criteria
- Semester Schedule
- Important Dates
- Computer Lab Assignments
  - BTC 131 – Computer Forensics Lab

Binary Numbers

- 0001
- 0010
- 0011
- 0101
- 0110
- 0111
- 1000
- 1000000000000

Binary Numbers

- 0001 = 1
- 0010 = 2
- 0011 = 3
- 0101 = 5
- 0110 = 6
- 0111 = 7
- 1000 = 8
- 1000000000000 = 2^{12} = 4096

Terms

- Bit
- Byte
- Octal
- Hexadecimal
- kbs
- MB
- Kilo, Mega, Giga, Tera, etc.

Review this text file:

- Binary Numbers and Hexadecimal Number

Abbreviated Glossary

- Internet
- www
- Intranet
- ISP
- LAN
- Server
- Client
- Workstation
- Node

- Domain
- Protocol
- ANSI
- Backbone
- Repeater
- Hub
- Switch
- Router

Abbreviated Glossary

- Hertz
- Firewall
- IPv4
- IPv6
- NIC
- IEEE

- Apache
- Linux
- Open Source Software
- Archive bit
- HTTP
- HTML
- TCP/IP