Tests & Quizzes

Assignment 1

Return to Assessment List

Part 1 of 13 / 1.0 Points

Question 1 of 13 1.0 Points

Click to see additional instructions

The maximum number of possible values that can be encoded in 7 bits is ✔ 128 .
Do not use any character other than digits.

Answer Key: 128

Part 2 of 13 / 1.0 Points

Question 2 of 13 1.0 Points

Click to see additional instructions

The range of possible unsigned values that can be represented in 11 bits is from ✔ 0 to ✔ 2047 .
Do not use any character other than digits.

Answer Key: 0, 2047

Part 3 of 13 / 1.0 Points

Question 3 of 13 1.0 Points

Click to see additional instructions
What is the minimum number of bits that are needed to represent 32800 different values? ✔ 16

Answer Key: 16

Part 4 of 13 / 1.5 Points

Question 4 of 13 1.5 Points

Click to see additional instructions

What is the unsigned decimal equivalent of the following ***unsigned*** *binary* integer value?

1111010 ✔ 122

Answer Key: 122

Part 5 of 13 / 1.5 Points

Question 5 of 13 1.5 Points

Click to see additional instructions

What is the unsigned *binary* equivalent of the following ***unsigned*** decimal integer value?

228 ✔ 11100100

Answer Key: 11100100

Part 6 of 13 / 2.0 Points

Question 6 of 13 2.0 Points

Click to see additional instructions

What is the unsigned decimal equivalent of the following ***unsigned*** *binary* value?

11100.0011 ✔ 28.1875

Answer Key: 28.1875

Part 7 of 13 / 2.0 Points

Question 7 of 13 2.0 Points

Click to see additional instructions

What is the unsigned *binary* equivalent (with 3 digits after the radix point, truncated) of the following ***unsigned*** decimal number?

10.375 ✔ 1010.011

Answer Key: 1010.011

Part 8 of 13 / 2.0 Points

Question 8 of 13 2.0 Points

Click to see additional instructions

What is the unsigned decimal equivalent of the following ***unsigned*** *base 7* integer value?

1010111 ✔ 120107

Answer Key: 120107

Part 9 of 13 / 2.0 Points

Question 9 of 13 2.0 Points

Click to see additional instructions

What is the unsigned *base 9* equivalent of the following ***unsigned*** decimal integer value?

601963 ✔ 1116657

Answer Key: 1116657

Part 10 of 13 / 2.0 Points

Question 10 of 13 2.0 Points

Click to see additional instructions

What is the unsigned decimal equivalent (with 5 digits after the decimal point, truncated, e.g.,

12.34567) of the following ***unsigned*** *base 7* value?

1110.011 ✔ 399.02332

Answer Key: 399.02332

Part 11 of 13 / 2.0 Points

Question 11 of 13 2.0 Points

Click to see additional instructions

What is the unsigned *base 7* equivalent (with 3 digits after the radix point, truncated, e.g., 12.345) of the following ***unsigned*** decimal number?

2856.3556 ✔ 11220.232

Answer Key: 11220.232

Part 12 of 13 / 1.0 Points

Question 12 of 13 1.0 Points

Click to see additional instructions

What is the unsigned octal equivalent of the following ***unsigned*** *hexadecimal* value?

91B4.FF ✔ 110664.776

Answer Key: 110664.776

Part 13 of 13 / 1.0 Points

Question 13 of 13 1.0 Points

What is the unsigned hexadecimal equivalent of the following ***unsigned*** *octal* value?

Do *NOT* include *ANY* insignificant zeros in your answer.

173011.521 ✔ F609.A88

Answer Key: F609.A88