

Name: _____

Conversions Worksheet

1. What is the standard range of numbers that can be represented by an 8-bit *unsigned* binary number? _____

2. Convert 58_{10} into an unsigned binary number. _____

3. Convert 58_{10} into a hexadecimal number. _____

4. Convert $0xC3D4$ to decimal. _____

5. Convert $0x1C5B$ to binary. _____

6. Convert the unsigned binary number 1010100101011110 into hexadecimal. _____

7. Convert 12021_3 into a base 10 number. _____

8. Convert 228_{10} into a base 5 number. _____

9. Write the six binary numbers that follow 1101.

1) _____

2) _____

3) _____

4) _____

5) _____

6) _____

10. Write the eight hexadecimal numbers that follow $0x1C99$.

1) _____

2) _____

3) _____

4) _____

5) _____

6) _____

7) _____

8) _____

11. Add $10110 + 01101$ in binary.

12. Add $133_4 + 321_4$ in base 4.