

## Homework 1: Due Monday. Sep. 8

*Instructor: Tyler Simon*

For the following questions, *show all of your work*. It is not sufficient to just provide the answers.

**Exercise 1:** Convert the following numbers from base 7 to base 10:

- $1435_7$
- $263.25_7$

**Exercise 2:** Convert the following numbers from base 10 to base 8:

- $345_{10}$
- $24.9_{10}$

**Exercise 3:** Convert the following numbers from decimal to binary, octal and hexadecimal.

- $298_{10}$
- $118_{10}$

**Exercise 4:** Convert the following numbers from hexadecimal to decimal and binary.

- $A9E4_{16}$
- $C46D_{16}$