

## Class 1 Homework

1. What is the binary representation of the base-10 number 45?
2. Find  $101101_2 + 100101_2$ .
3. Using your knowledge of how addition works in base-2 (binary), can you figure out how to add numbers from other base-n systems? Try  $3401_5 + 1134_5$  and  $62523_7 + 5302_7$ .
4. We haven't learned how to multiply binary numbers in class, but can you figure out how to find  $101_2 \times 100_2$ ?
5. What is the parity of  $1101000101_2$ ?