# Reading Quiz 1

The main point of this quiz is to give you practice thinking about and converting between binary, decimal, and hexadecimal representations of values. We'll be doing this a lot in this course, so it's extremely useful practice to do early on.

* Required

1. **Email address** *
   ANSWER KEY
   _____

2. **What is the decimal form of the unsigned binary number 110111?** *
   55
   _____

3. **What is the decimal form of the two's complement binary number 110111?** *
   -9
   _____

4. **What is the unsigned binary form of the decimal number 17? Use only as many bits as are necessary (e.g. your answer should start with 1)** *
   10001
   _____

5. **Which of the following best represents the conversion from the unsigned binary number 11001 to its decimal equivalent, 25?** *
   *Mark only one oval.*

   ◯ 8 + 8 + 0 + 0 + 9

   ◯ 8 + 8 + 0 + 0 + 8 + 1

   ◯ `16 + 8 + 0 + 0 + 1`

   ◯ 32 - 16 + 8 + 0 + 1

6. **Which of the following numbers could represent 0 in two's complement binary? (Choose ALL that apply)** *
   *Check all that apply.*

   ☐ 0001

   ☑ 0000

   ☐ 1000

   ☐ 1111

7. **Which of the following numbers could represent 0 in sign-magnitude binary? (Choose ALL that apply)** *

*Check all that apply.*

- [x] 0000
- [ ] 0001
- [ ] 1111
- [x] 1000

8. **What is the binary equivalent of the hexadecimal value 82e0? Give your answer as a 16-bit binary number.** *

1000 0010 1110 0000

9. **What is the hexadecimal equivalent of the binary value 01101110?** *

0x6E

10. **On which of these dates do we have a midterm? Choose ALL that apply** *

*Check all that apply.*

- [ ] November 10
- [x] October 20
- [x] November 13
- [ ] October 13

- [ ] Send me a copy of my responses.

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