Binary Section -- Quiz 1 NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Write the decimal number 134 in binary – show your work!
2. Write the binary number 100101 in the decimal (base 10) number system – show your work!
3. You go to an alien planet and find that everything on this planet is in *ternary*, or a base 3 number system. For example, the numbers from 0 to 6 in ternary are 0, 1, 2, 10, 11, 12, 20. You’re trying to find your alien friend, who lives on twelfth avenue. What numbers should the correct street sign display for **twelve** on this alien planet? (Hint: think about how we convert decimal to binary)