Logic Exercises

1. Cats are mammals.

2. Jane is a tall surveyor.

3. You can fool some of the people all of the time.

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5. The only good alien is a dead alien.

6. The barber of Seville shaves all men who do not shave themselves.

7. For every mountain in England, there is a higher mountain in Scotland.

8. There is one coin in the box.

9. There are two coins in the box.
10. The biggest coin in the box is a quarter.

11. The box contains brass screws (at least one screw and no non-screws).

12. The box contains screws, the largest of which has a left-handed thread.

13. A person born in the UK, both of whose parents are UK citizens or UK residents, is a UK citizen by birth.

14. A person born outside the UK, one of whose parents is a UK citizen by birth, is a UK citizen by descent.

15. Write a set of facts and axioms to represent the assertion "Wellington heard about Napoleon’s death" and to answer the question "Did Napoleon hear about Wellington’s death?"