Exercise 1 Let the following list of sentences be given. Is this list consistent? How can you find out?

1. All men are mortals.
2. No men are women.
3. Some women are angels.
4. No angels are mortals.

Exercise 2 Let the following list of sentences be given: Is this list consistent? How can you find out?

1. All men are mortals.
2. All women are mortals.
3. No men are women.
4. Some men are bullies.
5. Some mortals are not bullies.

Exercise 3 Consider again the list of sentences from the previous exercise. Does it follow from the information in this list that some women are not bullies? Why (not)?

Exercise 4 Consider again the list of sentences from Exercise 2. Suppose you want to add ‘All women are bullies’ to the list. Is the result still consistent? Why (not)?

Exercise 5 Consider again the list of sentences from Exercise 2, with ‘All women are bullies’ added to the list:

1. All men are mortals.
2. All women are mortals.
3. No men are women.
4. Some men are bullies.
5. Some mortals are not bullies.
6. All women are bullies.

Does it follow from the information in the list that some men are not bullies? Why (not)?