For 10 -> 9 GEMs

* How many 1-1 mappings are there?

63111

* How many 1-many mappings are there? In general, is the concept on the 1 side equivalent to the concepts on the many side? Explain.

7862; No, it's not equivalent, just because on the many side, it's necessary to use many terms to correspond to different aspects of the term on the one side.

* How many terms have no mappings?

731

For 9 -> 10 GEMs

* How many 1-1 mappings are there?

10765

* How many 1-many mappings are there? In general, is the concept on the 1 side equivalent to the concepts on the many side? Explain.

3380; No, it's not equivalent.

* How many terms have no mappings?

422

* Given the goal of resolving all 1:many mappings down to 1:1 mappings, which mapping direction (10->9 or 9->10) is more feasible? Explain your answer.

The direction of 10->9 is more feasible, because the percentage of 1:many mappings in 10->9 is 11.0%. However, the percentage of 1:many mappings in 9->10 is 23.2%.