

TUTORIAL 8 HELP SHEET

EXERCISE 8A : PCA WITH HOUSING DATA

PART A

HINT 1: Check lecture 8 slide 41

PART B

HINT 2. Check lecture 8 slide 40

PART C & D

HINT 3. Check lecture 8 slide 42

PART E

HINT 4. Check lecture 8 slide 52

PART F

HINT 5. Check lecture 8 slide 49 & 51

PART G, H & I

HINT 6. All remaining questions should be answered using a biplot

HINT 7. Check lecture 8 slide 46 & 47

HINT 8. Think about how association would look in a biplot. Think about the direction of the loadings (arrows).

PART J & K

HINT 9. How do we usually measure similarity? How do we measure similarity of observations?

PART L & M

HINT 10: These questions are about interpreting the observations with respect to their position on the biplot. Think about which variables point towards and away from that observation.