S2 Genetics

MARK / 10

Parental Signature:

Homework 2

Please note; this sheet is double sided.

Liking donuts

Homer’s genes: D D

Marge’s genes: d d

Key: D = likes donuts

d = doesn’t like

donuts

All the new babies have the genes \_\_ \_\_

All the new babies: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ because liking donuts is dominant/recessive .

Weight

Homer’s genes: n n

Marge’s genes: N N

Key: N= normal weight

n = obese weight .

All the new babies have the genes \_\_ \_\_. All the new babies have normal weight because normal weight is ­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Musical ability

Homer has one gene for no musical ability and one gene for musical ability. His genes are M m. He has musical ability because musical ability is dominant.

Marge does not have musical ability. Her genes are m m. Using a punnet square, show the possible gene combinations of their offspring: