

Name:

Period:

Date:

Genetics Worksheet #1

Assume **COMPLETE** dominance for #1 – 2. Determine the probability of each trait. Remember that complete dominance means that it takes over completely.

1. Arm Hair
Mother: Aa
Father: Aa

	<i>A</i>	<i>a</i>
<i>A</i>	<i>AA</i>	<i>Aa</i>
<i>a</i>	<i>Aa</i>	<i>aa</i>

Phenotype Probability
Arm Hair **75%**
No Arm Hair **25%**

2. Dimples
Mother: Dd
Father: dd

Phenotype Probability
Dimples
No Dimples

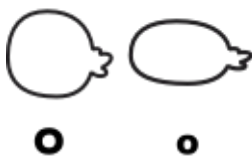
For #3 – 4 assume **INcomplete** dominance. Determine the probability of each trait.

3. Eye Colour
Mother: Yy
Father: yy

Phenotype Probability
Brown Eyes
Hazel/Green Eyes
Blue Eyes

4. Hair Texture
Mother: Cc
Father: Cc

Phenotype Probability
Curly Hair
Wavy Hair
Straight Hair



Draw a Chuck-Ken and write down its genotype. The ROUND body has COMPLETE dominance.

Draw a face for the given genotypes.

Face1

Genotype:

Dd

ee

nn

Pp

Kk

Ww

Bb

CC

yy

GG

XY

Face2

Genotype:

dd

EE

nn

pp

kk

ww

bb

cc

Yy

gg

XX