

Period: 5

Date: 3/10/15

14/4 + 5

Name: Dreas Peñ

TRAIT 1 Eye Color	PARENT 1 ALLELE 1 <u>A</u>	PARENT 1 ALLELE 2 <u>a</u>
PARENT 2 ALLELE 1 <u>A</u>	AA	(Aa)
PARENT 2 ALLELE 2 <u>A</u>	AA	(Aa)

g = 2:2 p = 100%

TRAIT 6 <u>large</u>	PARENT 1 ALLELE 1 <u>F</u>	PARENT 1 ALLELE 2 <u>F</u>
PARENT 2 ALLELE 1 <u>F</u>	(FF)	(FF)
PARENT 2 ALLELE 2 <u>F</u>	(FF)	(FF)

g = 100% p = 100%

TRAIT 11 <u>wide nose</u>	PARENT 1 ALLELE 1 <u>K</u>	PARENT 1 ALLELE 2 <u>k</u>
PARENT 2 ALLELE 1 <u>K</u>	KK	(Kk)
PARENT 2 ALLELE 2 <u>K</u>	(KK)	Kk

g = 1:2:1 p = 75%

TRAIT 2 Hair Color	PARENT 1 ALLELE 1 <u>B</u>	PARENT 1 ALLELE 2 <u>B</u>
PARENT 2 ALLELE 1 <u>b</u>	(Bb)	(Bb)
PARENT 2 ALLELE 2 <u>b</u>	(Bb)	(Bb)

g = 100% p = 100%

TRAIT 7 <u>gender</u>	PARENT 1 ALLELE 1 <u>X</u>	PARENT 1 ALLELE 2 <u>X</u>
PARENT 2 ALLELE 1 <u>X</u>	XX	XX
PARENT 2 ALLELE 2 <u>Y</u>	(XY)	(XY)

g = 2:2 p = 50%

TRAIT 12 <u>large eyes</u>	PARENT 1 ALLELE 1 <u>L</u>	PARENT 1 ALLELE 2 <u>l</u>
PARENT 2 ALLELE 1 <u>L</u>	(Ll)	(ll)
PARENT 2 ALLELE 2 <u>L</u>	(Ll)	(ll)

g = 2:2 p = 50%

TRAIT 3 Hair Type	PARENT 1 ALLELE 1 <u>C</u>	PARENT 1 ALLELE 2 <u>c</u>
PARENT 2 ALLELE 1 <u>C</u>	(CC)	Cc
PARENT 2 ALLELE 2 <u>C</u>	CC	Cc

g = 100% p = 100%

TRAIT 8 <u>skin type</u>	PARENT 1 ALLELE 1 <u>H</u>	PARENT 1 ALLELE 2 <u>h</u>
PARENT 2 ALLELE 1 <u>H</u>	(HH)	hh
PARENT 2 ALLELE 2 <u>h</u>	Hh	hh

g = 1:2:1 p = 50%

TRAIT 13 <u>Round eyes</u>	PARENT 1 ALLELE 1 <u>M</u>	PARENT 1 ALLELE 2 <u>m</u>
PARENT 2 ALLELE 1 <u>M</u>	(Mm)	Mm
PARENT 2 ALLELE 2 <u>M</u>	(Mm)	Mm

g = 2:2 p = 50%

TRAIT 4 <u>Two dimples</u>	PARENT 1 ALLELE 1 <u>D</u>	PARENT 1 ALLELE 2 <u>d</u>
PARENT 2 ALLELE 1 <u>D</u>	(DD)	Dd
PARENT 2 ALLELE 2 <u>D</u>	(DD)	Dd

g = 2:2 p = 100%

TRAIT 9 <u>widow's peak</u>	PARENT 1 ALLELE 1 <u>I</u>	PARENT 1 ALLELE 2 <u>i</u>
PARENT 2 ALLELE 1 <u>I</u>	(Ii)	Ii
PARENT 2 ALLELE 2 <u>I</u>	(Ii)	Ii

g = 2:2 p = 100%

TRAIT 14 <u>Power</u>	PARENT 1 ALLELE 1 <u>N</u>	PARENT 1 ALLELE 2 <u>n</u>
PARENT 2 ALLELE 1 <u>N</u>	(Nn)	nn
PARENT 2 ALLELE 2 <u>N</u>	(Nn)	nn

g = 2:2 p = 50%

TRAIT 5 <u>Tall</u>	PARENT 1 ALLELE 1 <u>E</u>	PARENT 1 ALLELE 2 <u>e</u>
PARENT 2 ALLELE 1 <u>E</u>	(Ee)	Ee
PARENT 2 ALLELE 2 <u>E</u>	(Ee)	Ee

g = 100% p = 100%

TRAIT 10 <u>Single toe</u>	PARENT 1 ALLELE 1 <u>J</u>	PARENT 1 ALLELE 2 <u>j</u>
PARENT 2 ALLELE 1 <u>J</u>	(Jj)	Jj
PARENT 2 ALLELE 2 <u>J</u>	Jj	Jj

g = 1:2:1 p = 75%

TRAIT 15 <u>Power</u>	PARENT 1 ALLELE 1 <u>O</u>	PARENT 1 ALLELE 2 <u>o</u>
PARENT 2 ALLELE 1 <u>O</u>	OO	Oo
PARENT 2 ALLELE 2 <u>O</u>	Oo	(Oo)

g = 1:2:1 p = 75%

Questions:

1. What kind of Super trait did your super baby inherit from your super hero?

Having the ability of healing minor cuts was the kind of Super trait our super baby inherit from my super hero.

2. What kind of Super trait did your super baby inherit from your partner's hero?

Our super baby inherit super strength from my partner's hero.

3. Why did your super baby gain or lose Super traits?

Our super baby gained or lost Super traits due to dominant and recessive alleles.

4. How would you explain your super baby's co-dominant trait? Look up and write down an additional example of organism with co-dominant trait.

Our super baby's co-dominant trait is due to two dominant traits such as eye color of the organism. An additional example of an organism with co-dominant trait

Additional Example:

5. How can you explain the chance of having a boy or girl is always 50-50?

The chances of having a boy or girl is always 50-50 due to sex chromosomes. Males have a X and a Y chromosome but females have both X chromosomes. So, parents are the

TRAIT	PARENT 1 ALLELE 1 X	PARENT 1 ALLELE 2 Y
PARENT 2 ALLELE 1 X	XX	XY
PARENT 2 ALLELE 2 X	XX	XY

	4 – Exceeds	3 – Meets	2 – Approaching	1 – Below
Punnett Squares	15 Punnett Squares are created	14-10 Punnett Squares are created	9-5 Punnett Squares are created	4-1 Punnett Squares are created
Genotype	15 Genotypes of the baby are created and shows a ratio or percentage for the Genotype	15 Genotypes of the baby are created	14-10 Genotypes of the baby are created	9-5 Genotypes of the baby are created
Phenotype	15 Phenotypes of the baby are created and show a ratio or percentage for the Phenotype	15 Phenotypes of the baby are created	14-10 Phenotypes of the baby are created	9-5 Phenotypes of the baby are created

Rubric

Extra Credit for completed the Dihybrid cross for your super baby

Use two of your Super Heroes / Villains traits to create a Dihybrid Cross for your Super baby
(This will be **EXTRA CREDIT**)

Parent 1 Allele

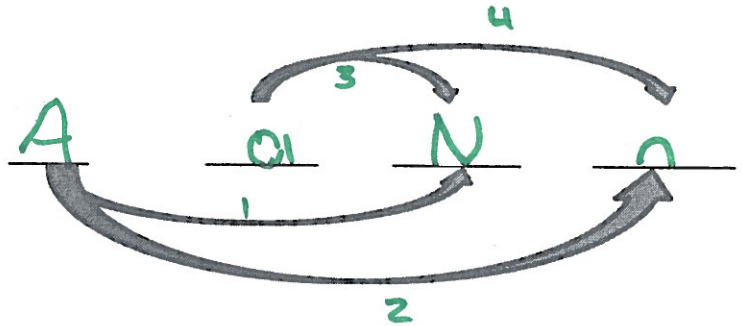
Parent 1 Allele

First (1) = AN

Outside (2) = an

Inside (3) = aN

Last (4) = An



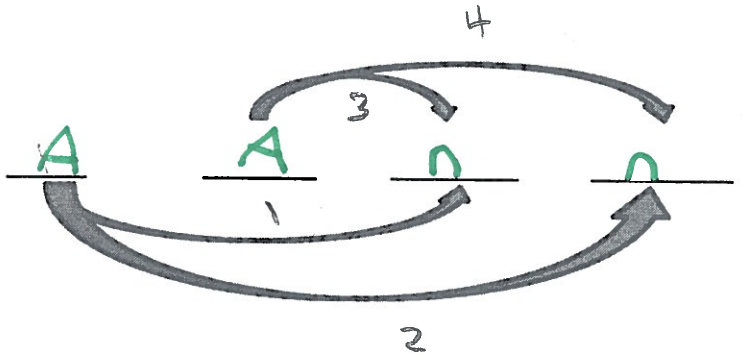
Parent 2 Allele

First (1) = AN

Outside (2) = An

Inside (3) = aN

Last (4) = An



Trait	Parent 1 Allele	Parent 1 Allele	Parent 1 Allele	Parent 1 Allele
	AN	An	aN	an
Parent 2 Allele AN	AANN	AANn	AaNN	AaNn
Parent 2 Allele An	AA Nn	AA nn	Aa Nn	Aa nn
Parent 2 Allele aN	AANN	AA nn	Aa Nn	Aa nn
Parent 2 Allele an	AA Nn	AA nn	Aa Nn	Aa nn

Period: 1

Date: 03/10/13

AA = 4/14/13
Aa = hetero

Name: Anahi Aguirre

TRAIT 1 <i>eye color</i>	PARENT 1 ALLELE 1 <u>a</u>	PARENT 1 ALLELE 2 <u>a</u>
PARENT 2 ALLELE 1 <u>a</u>	<u>aa</u>	aa
PARENT 2 ALLELE 2 <u>a</u>	aa	aa

blue

TRAIT 6 <i>Large</i>	PARENT 1 ALLELE 1 <u>F</u>	PARENT 1 ALLELE 2 <u>F</u>
PARENT 2 ALLELE 1 <u>F</u>	<u>FF</u>	Ff
PARENT 2 ALLELE 2 <u>f</u>	Ff	ff

TRAIT 11 <i>Large nose</i>	PARENT 1 ALLELE 1 <u>K</u>	PARENT 1 ALLELE 2 <u>k</u>
PARENT 2 ALLELE 1 <u>k</u>	<u>KK</u>	Kk
PARENT 2 ALLELE 2 <u>k</u>	Kk	Kk

G: 4: P: 100%

G = 1: 2: P = 100%

G = 1: 3 P = 100

TRAIT 2 <i>hair color</i>	PARENT 1 ALLELE 1 <u>B</u>	PARENT 1 ALLELE 2 <u>b</u>
PARENT 2 ALLELE 1 <u>B</u>	Bb	<u>Bb</u>
PARENT 2 ALLELE 2 <u>B</u>	BB	Bb

TRAIT 7 <i>* male / female</i>	PARENT 1 ALLELE 1 <u>X</u>	PARENT 1 ALLELE 2 <u>X</u>
PARENT 2 ALLELE 1 <u>X</u>	<u>XX</u>	XX
PARENT 2 ALLELE 2 <u>Y</u>	XY	XY

TRAIT 12 <i>Large ears</i>	PARENT 1 ALLELE 1 <u>L</u>	PARENT 1 ALLELE 2 <u>l</u>
PARENT 2 ALLELE 1 <u>L</u>	<u>LL</u>	Ll
PARENT 2 ALLELE 2 <u>l</u>	Ll	ll

G = 2: 1: 1 P: 3: 1

TRAIT 3 <i>Hair type</i>	PARENT 1 ALLELE 1 <u>C</u>	PARENT 1 ALLELE 2 <u>C</u>
PARENT 2 ALLELE 1 <u>C</u>	CC	CC
PARENT 2 ALLELE 2 <u>C</u>	<u>CC</u>	Cc

TRAIT 8 <i>Cleft chin</i>	PARENT 1 ALLELE 1 <u>H</u>	PARENT 1 ALLELE 2 <u>H</u>
PARENT 2 ALLELE 1 <u>h</u>	<u>Hh</u>	Hh
PARENT 2 ALLELE 2 <u>h</u>	Hh	Hh

G = 1: 2: 1 P = 3: 1

TRAIT 13 <i>Round eyes</i>	PARENT 1 ALLELE 1 <u>M</u>	PARENT 1 ALLELE 2 <u>m</u>
PARENT 2 ALLELE 1 <u>M</u>	<u>Mm</u>	Mm
PARENT 2 ALLELE 2 <u>M</u>	Mm	Mm

G = 2: 2 P = 100

G = 4 P = 100%

G = 4 P = 100%

TRAIT 4 <i>Face shape</i>	PARENT 1 ALLELE 1 <u>D</u>	PARENT 1 ALLELE 2 <u>d</u>
PARENT 2 ALLELE 1 <u>D</u>	<u>DD</u>	Dd
PARENT 2 ALLELE 2 <u>d</u>	Dd	dd

TRAIT 9 <i>widow's Peak</i>	PARENT 1 ALLELE 1 <u>I</u>	PARENT 1 ALLELE 2 <u>i</u>
PARENT 2 ALLELE 1 <u>I</u>	Ii	Ii
PARENT 2 ALLELE 2 <u>i</u>	Ii	<u>Ii</u>

TRAIT 14 <i>power</i>	PARENT 1 ALLELE 1 <u>N</u>	PARENT 1 ALLELE 2 <u>n</u>
PARENT 2 ALLELE 1 <u>N</u>	NN	Nn
PARENT 2 ALLELE 2 <u>n</u>	Nn	<u>nn</u>

G = 1: 2: 1 P = 3: 1

G = 1: 2: 1 P = 3: 1

G = 1: 2: 1 P = 3: 1

TRAIT 5 <i>Tall</i>	PARENT 1 ALLELE 1 <u>E</u>	PARENT 1 ALLELE 2 <u>e</u>
PARENT 2 ALLELE 1 <u>E</u>	EE	<u>Ee</u>
PARENT 2 ALLELE 2 <u>E</u>	EE	Ee

TRAIT 10 <i>straight nose</i>	PARENT 1 ALLELE 1 <u>J</u>	PARENT 1 ALLELE 2 <u>j</u>
PARENT 2 ALLELE 1 <u>J</u>	JJ	<u>Jj</u>
PARENT 2 ALLELE 2 <u>J</u>	JJ	Jj

TRAIT 15 <i>power</i>	PARENT 1 ALLELE 1 <u>O</u>	PARENT 1 ALLELE 2 <u>o</u>
PARENT 2 ALLELE 1 <u>O</u>	<u>Oo</u>	Oo
PARENT 2 ALLELE 2 <u>O</u>	Oo	Oo

G 2: 2 P = 4: 100%

G = 2: 2 P = 100%

G = 4 P = 100%

Questions:

1. What kind of Super trait did your super baby inherit from your super hero?

The super trait that the baby inherited was the color of hair.

2. What kind of Super trait did your super baby inherit from your partner's hero?

The trait that inherited from my partner's hero is the flying power; from

3. Why did your super baby gain or lose Super traits?

It gained ~~power~~ the trait of flying, web power, xray vision and healing factor.

4. How would you explain your super baby's co-dominant trait? Look up and write down an additional example of organism with co-dominant trait.

The co-dominant trait was the power of super strength because both heroes had that power.

Additional Example:

5. How can you explain the chance of having a boy or girl is always 50-50?

The chance of it being a boy or girl depends on traits the person has and the DNA.

TRAIT	PARENT 1 ALLELE 1 X	PARENT 1 ALLELE 2 Y
PARENT 2 ALLELE 1 X	YX	XY
PARENT 2 ALLELE 2 X	XX	XY

Explain Punnett square

	4 – Exceeds	3 – Meets	2 – Approaching	1 – Below
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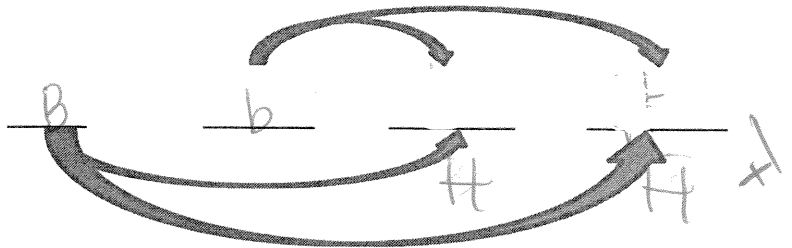
Parent 1 Allele

First (1) = BH

Outside (2) = BH

Inside (3) = bH

Last (4) = bH



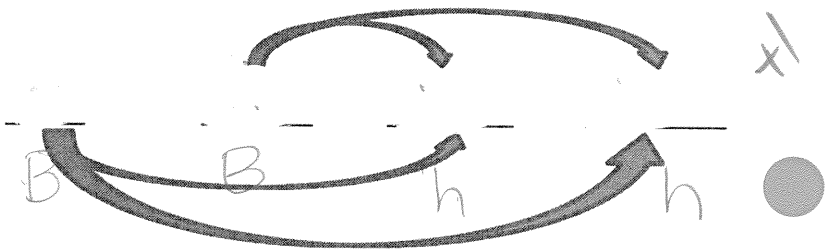
Parent 2 Allele

First (1) = Bb

Outside (2) = Bh

Inside (3) = Bh

Last (4) = Bh



Trait	Parent 1 Allele	Parent 1 Allele	Parent 1 Allele	Parent 1 Allele
	BH	BH	bH	bH
Parent 2 Allele Bh	BBHh	BBHh	BbHb	BbHh
Parent 2 Allele Bh	BBHh	BBHh	BbHh	BbHh
Parent 2 Allele Bh	BBHh	BBHh	BbHh	BBHh
Parent 2 Allele Bh	BbHh	BBHh	BbHh	BbHh

Period: 5

Date: 3-10-10

14/14 +3

Name: Koxana Sedra

TRAIT 1 Eye color	PARENT 1 ALLELE 1 <u>A</u>	PARENT 1 ALLELE 2 <u>a</u>
PARENT 2 ALLELE 1 <u>a</u>	<u>Aa</u>	<u>aa</u>
PARENT 2 ALLELE 2 <u>a</u>	<u>Aa</u>	<u>aa</u>

G=2:2 P=100%

TRAIT 6 Large/Big nose	PARENT 1 ALLELE 1 <u>F</u>	PARENT 1 ALLELE 2 <u>f</u>
PARENT 2 ALLELE 1 <u>F</u>	<u>FF</u>	<u>Ff</u>
PARENT 2 ALLELE 2 <u>f</u>	<u>Ff</u>	<u>ff</u>

G=1:2:1 P=3:1

TRAIT 11 Large/Big nose	PARENT 1 ALLELE 1 <u>K</u>	PARENT 1 ALLELE 2 <u>k</u>
PARENT 2 ALLELE 1 <u>k</u>	<u>KK</u>	<u>Kk</u>
PARENT 2 ALLELE 2 <u>k</u>	<u>KK</u>	<u>Kk</u>

G=1:1:2 P=100%

TRAIT 2 Hair color	PARENT 1 ALLELE 1 <u>B</u>	PARENT 1 ALLELE 2 <u>b</u>
PARENT 2 ALLELE 1 <u>B</u>	<u>BB</u>	<u>Bb</u>
PARENT 2 ALLELE 2 <u>B</u>	<u>BB</u>	<u>Bb</u>

G=2:2 P=100%

TRAIT 7	PARENT 1 ALLELE 1 <u>X</u>	PARENT 1 ALLELE 2 <u>X</u>
PARENT 2 ALLELE 1 <u>X</u>	<u>XX</u>	<u>XX</u>
PARENT 2 ALLELE 2 <u>Y</u>	<u>Xy</u>	<u>Xy</u>

G=2:2 P

TRAIT 12 Large ears	PARENT 1 ALLELE 1 <u>L</u>	PARENT 1 ALLELE 2 <u>L</u>
PARENT 2 ALLELE 1 <u>L</u>	<u>LL</u>	<u>LL</u>
PARENT 2 ALLELE 2 <u>L</u>	<u>LL</u>	<u>LL</u>

G=2:2 P=100%

TRAIT 3 Curly hair	PARENT 1 ALLELE 1 <u>C</u>	PARENT 1 ALLELE 2 <u>C</u>
PARENT 2 ALLELE 1 <u>C</u>	<u>CC</u>	<u>Cc</u>
PARENT 2 ALLELE 2 <u>C</u>	<u>Cc</u>	<u>cc</u>

G=1:1:2 P=3:1

TRAIT 8 Rt chin	PARENT 1 ALLELE 1 <u>H</u>	PARENT 1 ALLELE 2 <u>H</u>
PARENT 2 ALLELE 1 <u>h</u>	<u>Hh</u>	<u>Hh</u>
PARENT 2 ALLELE 2 <u>h</u>	<u>Hh</u>	<u>Hh</u>

G=2:2 P=100%

TRAIT 13 Round eyes	PARENT 1 ALLELE 1 <u>M</u>	PARENT 1 ALLELE 2 <u>M</u>
PARENT 2 ALLELE 1 <u>M</u>	<u>MM</u>	<u>MM</u>
PARENT 2 ALLELE 2 <u>m</u>	<u>Mm</u>	<u>Mm</u>

G=2:2 P=100%

TRAIT 4 Round face	PARENT 1 ALLELE 1 <u>D</u>	PARENT 1 ALLELE 2 <u>D</u>
PARENT 2 ALLELE 1 <u>D</u>	<u>DD</u>	<u>DD</u>
PARENT 2 ALLELE 2 <u>d</u>	<u>Dd</u>	<u>Dd</u>

G=2:2 P=100%

TRAIT 9 Widow's peak	PARENT 1 ALLELE 1 <u>I</u>	PARENT 1 ALLELE 2 <u>I</u>
PARENT 2 ALLELE 1 <u>I</u>	<u>II</u>	<u>II</u>
PARENT 2 ALLELE 2 <u>i</u>	<u>Ii</u>	<u>Ii</u>

G=2:2 P=100%

TRAIT 14 Power	PARENT 1 ALLELE 1 <u>N</u>	PARENT 1 ALLELE 2 <u>N</u>
PARENT 2 ALLELE 1 <u>N</u>	<u>NN</u>	<u>NN</u>
PARENT 2 ALLELE 2 <u>N</u>	<u>NN</u>	<u>Nn</u>

G=2:2 P=100%

TRAIT 5 Tall bio	PARENT 1 ALLELE 1 <u>E</u>	PARENT 1 ALLELE 2 <u>E</u>
PARENT 2 ALLELE 1 <u>E</u>	<u>EE</u>	<u>Ee</u>
PARENT 2 ALLELE 2 <u>e</u>	<u>Ee</u>	<u>ee</u>

G=2:2 P=100%

TRAIT 10 Straight nose	PARENT 1 ALLELE 1 <u>J</u>	PARENT 1 ALLELE 2 <u>J</u>
PARENT 2 ALLELE 1 <u>J</u>	<u>Jj</u>	<u>Jj</u>
PARENT 2 ALLELE 2 <u>j</u>	<u>Jj</u>	<u>Jj</u>

G=2:2 P=100%

TRAIT 15 Power	PARENT 1 ALLELE 1 <u>O</u>	PARENT 1 ALLELE 2 <u>O</u>
PARENT 2 ALLELE 1 <u>O</u>	<u>OO</u>	<u>OO</u>
PARENT 2 ALLELE 2 <u>O</u>	<u>OO</u>	<u>OO</u>

G=2:1 P=100%

Questions:

1. What kind of Super trait did your super baby inherit from your super hero?

Black hair, Blue eyes, Super strength, and straight nose.

2. What kind of Super trait did your super baby inherit from your partner's hero?

Black hair, Big eyes, Big nose, large, tau, half green skin.

3. Why did your super baby gain or lose Super traits?

No, our super baby kept its powers

4. How would you explain your super baby's co-dominant trait? Look up and write down an additional example of organism with co-dominant trait.

The skin it has green and normal colored skin from both parents to make it co-dominant trait.

Additional Example:

5. How can you explain the chance of having a boy or girl is always 50-50?

Because both x and y chromosomes from both parents collide.

	x	y
PARENT 1 ALLELE 1 x	XX	XY
PARENT 2 ALLELE 1 x	XX	XY
PARENT 2 ALLELE 2 y	xY	xY

	4 – Exceeds	3 – Meets	2 – Approaching	1 – Below
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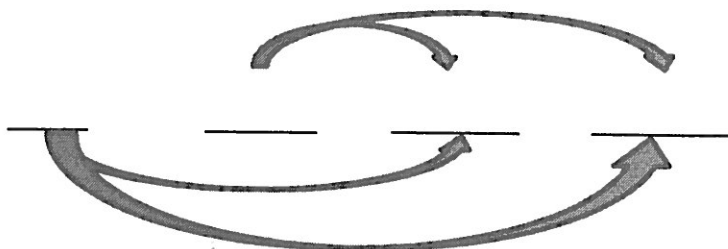
Parent 1 Allele

First (1) = _____

Outside (2) = _____

Inside (3) = _____

Last (4) = _____



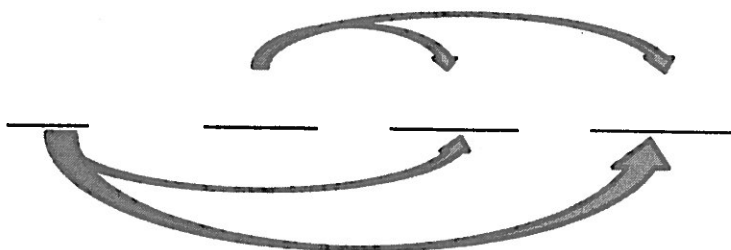
Parent 2 Allele

First (1) = _____

Outside (2) = _____

Inside (3) = _____

Last (4) = _____



Trait	Parent 1 Allele	Parent 1 Allele	Parent 1 Allele	Parent 1 Allele
Parent 2 Allele				
Parent 2 Allele				
Parent 2 Allele				
Parent 2 Allele				