"JDENT WORKSHEET

The Genetics of Parenthood Data Sheet

arents		and _	HOLL Z'GURAO	ALLEGA	ROM S
Thild's gender	C	hild's name	7 V.	DAD	TW IN

ill in the data table as you determine each trait described in the Guidebook. Do not simply flip the oin for all traits before reading the guide, because some of the traits have special instructions. Telieve it or not, it will make your life easier if you follow directions. In the last column, combine information and draw what that section of the child's face would look like.

FRAIT	ALL FRO MON	M	ALL: FRO DAD	M	CHILD'S GENOTYPE	CHILD'S PHENOTYPE (written)	CHILD'S PHENOTYPE (drawn)
race Shape	A	а	Α	а			face & chin
Chin Size	В	b	В	b		Ç=1	
Chin Shape	С	С	C	c			
Cleft Chin	D	d	D	d			De la company de
Skin Color	E e G g	Fı	E e G g	Ff			
Hair Color	H h J j	l i K k	H h	I i K k			
Red Tints	Li	L ₂	L1	L ₂			hair
Hair Type	Mi	M2	Mi	M2			X
Widow's Peak	0	0	0	0			
Eye Color	Рр	Qq	Pp	Qq		7	eye & eyelashes
Eye Distance	RI	R ₂	Ri	R ₂		·	a graduate mengan serigin Selection - Alla Parti ceri seri deligia serienza e Amerika punta est del
Eye Size	Sı	S ₂	Sı	S ₂	nd s gandrove us the process of	reservante de la contra del contra de la contra del la contra del la contra del la contra del la contra de la contra de la contra del la co	er does each paren what part of your u es from this acti
Eye Shape	T	t	T	t sisias	2	onsaimoh atalamo	
Eye Slant edness		u Halisb	U	u 21261 8	ares) to the actu	ygenic	d. pol related phenoxyte
Eyelashes	V	V	V	(40)	v rizd) 8% Henr.	d -	esis esis esis esis esis esis esis esis

iţ	TRAIT	FRO MON	И	FRO DAD		CHILD'S GENOTYPE	CHILD'S PHENOTYPE (written)	CHILD'S PHENOTYPE (drawn)
16	Eyebrow Color	Wı	W ₂	Wı	W ₂			eyebrow
17	Eyebrow · Thickness	Z	z qen	Z	Z %0	ed in the Guiden.	each nail descrit enide, because s	o maceh koy as sid. Santare vendad
18	Eyebrow Length	Α	а	A	a	s face was all too	o naoy in system de Aldemonation a cons	t ropy sylem talwor cars) vs.t v cars bas
19	Mouth Size	Bı	B ₂	Bı	B2			mouth
20	Lip Thickness	C	/c	C	c a	PE PHENOI	тоиао и	CHOINE FRO
21	Dimples	D	d	D	d		B	
22	Nose Size	E ₁	E ₂	E ₁	E ₂			nose
23	Nose Shape	F	ï	F	1,			
2.4	Nostril Shape	G	g	G	g		1 11	
3	Earlobe Attachment	Н	h	H	h			ear
	Darwin's Earpoint	I	i	1	i			
-	Ear Pits	J	j	J	j			
8	Hairy Ears	K	k	K	k		The state of the s	IM EN IN
9	Cheek Freckles	L	I	L	T			
30	Forehead Freckles	M	e m le:	эМ	m		P.V	

QUESTIONS:

What percentage does each parent contribute to a child's genotype?

2. Explain how/what part of your procedures represents the process of meiosis.
Using examples from this activity, explain your understanding of the following inheritance patterns:

a. dominant

c. incomplete dominance

e. epistasis

b. recessive

d. polygenic

3 Compare the predicted phenotype ratio (Punnett squares) to the actual ratio (class data) for the following traits:

a. trait # 2 (chin size)

· b. trait #8 (hair type)

All the children had 2 heterozygous parents. Use the law of independent assortment to explain why there were no identical twins produced.