Appendix 1. Item types and sample items.

I The plural feature

Table I. Item types and sample items for the two plural suffixes.	Table	I. Item	types and	l sample items	for the two	plural suffixes.
--	-------	---------	-----------	----------------	-------------	------------------

	-men	-xie	
Grammatical	N-men (1a)	D-xie N (Ic)	
Ungrammatical	*D-men N (1b)	*N <i>-xi</i> e (1d)	

(1) a. Plural marking of <i>-men</i> on a noun (grammatical)
Haizi-men hen tiaopi.
Child-PL very naughty
'The children are very naughty.'
b. Plural marking of <i>-men</i> on a demonstrative (ungrammatical)
* Na-men haizi hen tiaopi.
That-PL child very naughty
'Those children are very naughty.'
c. Plural marking of <i>-xie</i> on a demonstrative (grammatical)
Na-xie haizi hen tiaopi.
That-PL child very naughty
'Those children are very naughty.'
d. Plural marking of <i>-xie</i> on a noun (ungrammatical)
* Haizi-xie hen tiaopi.
Child-PL very naughty
'The children are very naughty.'
5 6 5

	Table 2. Item types and sample item	s for different contexts of	plural marking.
--	-------------------------------------	-----------------------------	-----------------

	Control: Singular in	*Obligatory plural marking	Obligatory plural marking on	Optional plural marking on nouns	Filler
	LI & L2	on nouns in LI	demonstratives in L2	in L2	
Gr	D N (2a)		D-xie N (2c) ((1c) in Table 1)	D-xie N-men (2d)	
Un		*D N-men (2b)			*D-men N-men (2e)

(2) a. Control: singular (grammatical)

a. Control. Singular (grannatical)
Na haizi hen tiaopi.
That child very naughty
'That child is very naughty.'
b. Lack of plural marking on a demonstrative (ungrammatical)
* Na haizi -men hen tiaopi.
That child-Pl very naughty
'Those children are very naughty.'
c. Obligatory plural marking on a demonstrative (grammatical)
Na-xie haizi hen tiaopi.
That-PL child very naughty
'Those children are very naughty.'

- d. Optional plural marking on a noun (grammatical) Na-xie haizi-men hen tiaopi. That-PL child-PL very naughty 'Those children are very naughty.'
 e. Filler (ungrammatical)
- * Na-men haizi-men hen tiaopi. That-PL child-PL very naughty 'Those children are very naughty.'

2 The human feature

Table 3. Item	types and sample	e items for differer	nt classifiers co-o	ccurring with human no	ouns.
	·/ · · · · · · · · · · · · · · · · · ·				

Numeral CI N _[+human] (numeral = 1)						
Gr	Cl _[+human] (3a)	General CI (3b)				
Un			*CI _[+animate] (3c)	*CI _[-animate] (3d)		

(3) a. A human noun with a human classifier (grammatical) Yi **ming** jingcha zai gongzuo. One CL policeman be work 'A policeman is working.' b. A human noun with the general classifier (grammatical) Yi ge jingcha zai gongzuo. One CL policeman be work 'A policeman is working.' c. A human noun with an animate classifier (ungrammatical) zhi jingcha * Yi zai gongzuo. One CL policeman be work 'A policeman is working.' d. A human noun with an inanimate classifier (ungrammatical) * Yi **ben** jingcha zai gongzuo. One CL policeman be work 'A policeman is working.'

Table 4. Item types and sample items for plural marking of *-men* on different nouns.

	N-men			Fille	er: N
Gr	N _[+human] (4a) ((1a) in Table 1)			N _[+animate] (4d)	N _[-animate] (4e)
Un		*N _[+animate] (4b)	*N _[-animate] (4c)		

(4) a. A human noun suffixed with -men (grammatical)

Haizi-men hen tiaopi.

Child-PL very naughty

'The children are very naughty.'

- b. An animate noun suffixed with *-men* (ungrammatical)
- * Ying-men zai feixiang. Eagle-PL be fly 'The eagles are flying.'

c. An inanimate noun suffixed with *-men* (ungrammatical)
* Lou-men hen gao. Building-PL very tall 'The buildings are very tall.'
d. Filler: an animate noun (grammatical) Ying zai feixiang. Eagle be fly 'The eagle/an eagle is flying//eagles are flying.'
e. Filler: an inanimate noun (grammatical) Lou hen gao. Building very tall 'The building/a building is very tall//buildings are very tall.'

Table 5. Item types and sample items for the co-occurrence restriction of classifiers and -men.

	Numeral CI N	N _[+human] (numeral > 1)	*Numeral CI N	[+human]- <i>men</i> (numeral > 1)
Gr	Cl[+human] (5a)	General CI (5b)		
Un			*Cl _[+human] (5c)	*General CI (5d)

(5) a. A human noun with a human classifier (grammatical)
Si ming yudongyuan zai benpao.
Four CL athlete be run
'Four athletes are running.'
b. A human noun with the general classifier (grammatical)
Qi ge yisheng zai zuo shoushu.
Seven CL doctor be do surgery
'Seven doctors are doing a surgery.'
c. A -men marked human noun with a human classifier (ungrammatical)
* San ming yudongyuan- men zai benpao.
Three CL policem-PL be run
'Three athletes are running.'
d. A <i>-men</i> marked human noun with the general classifier (ungrammatical)
* Wu ge yisheng-men zai zuo shoushu.
Five CL doctor-PL be do surgery
'Five doctors are doing a surgery.'

Table 6. Item types and sample items for the co-occurrence restriction of classifiers and -xie.

D Numeral CI N (numeral > 1)			*D-x	ie Numeral (CI N (numera	>)		
Gr	Cl _[+human] (6a)	General Cl (6b)	Cl _[+animate] (6c)	Cl _[-animate] (6d)				
Un					*CI _[+human] (6e)	*General CI (6f)	*CI _[+animate] (6g)	*CI _[-animate] (6h)

(6) a. A demonstrative with a human classifier (grammatical)

Na jiu ming sheyingshi zai paizhao.

That nine CL photographer be take-photo

'Those nine photographers are taking photos.'

b. A demonstrative with the general classifier (grammatical)

Zhe ba ge kexuejia zai zuo shiyan.
This eight CL scientist be do experiment
'These eight scientists are doing an experiment.'
c. A demonstrative with an animate classifier (grammatical)
Zhe san zhi ying zai feixiang.
This three CL eagle be fly
'These three eagles are flying.'
d. A demonstrative with an inanimate classifier (grammatical)
Na wu ke zhenzhu hen piaoliang.
That five CL pearl very beautiful
'Those five pearls are very beautiful.'
e. A -xie marked demonstrative with a human classifier (ungrammatical)
* Na-xie ba ming sheyingshi zai paizhao.
That-PL eight CL photographer be take-photo
'Those eight photographers are taking photos.'
f. A -xie marked demonstrative with the general classifier (ungrammatical)
* Zhe-xie jiu ge kexuejia zai zuo shiyan.
This-PL nine CL scientists be do experiment
'These nine scientists are doing an experiment.'
g. A -xie marked demonstrative with an animate classifier (ungrammatical)
* Zhe-xie wu zhi ying zai feixiang.
This-PL five CL eagle be fly
'These five eagles are flying.'
h. A -xie marked demonstrative with an inanimate classifier (ungrammatical)
* Na -xie liu ke zhenzhu hen piaoliang.
That-PL six CL pearl very beautiful

'Those six pearls are very beautiful.'

Appendix 2.

ltem type		Beginner		Intermediate		Advanced		Native	
		М	SD	М	SD	М	SD	М	SD
N-men	(Figure I)	95.2	21.6	96.2	19.2	100	0	100	0
*D-men N	(Figure I)	35.4	48. I	14.1	35.0	5.41	22.8	5.22	22.3
D-xie N	(Figure I)	85.2	35.8	89.7	30.5	67.6	47.I	89.4	31.0
*N-xie	(Figure I)	31.3	46.6	13.0	33.8	1.39	11.8	1.74	13.1
DN	(Figure 2)	90.2	29.9	79.8	40.5	60.0	49.3	78.I	41.6
*D N-men	(Figure 2)	72.3	45.0	78.4	41.5	43.2	49.9	9.57	29.5
D-xie N	(Figure 2)	85.2	35.8	89.7	30.5	67.6	47.I	89.4	31.0
D-xie N-men	(Figure 2)	81.3	39.3	71.8	45.3	78.7	41.2	66. I	47.6
CL.human N.human	(Figure 3)	80.3	40. I	98.7	11.3	100	0	100	0
CL.general N.human	(Figure 3)	89.9	30.4	85.7	35.2	90.7	29.3	78.3	41.4
*CL.animate N.human	(Figure 3)	35.9	48.3	12.2	32.9	1.37	11.7	0.87	9.33
*CL.inanimate N.human	(Figure 3)	37.2	48.6	6.85	25.4	0	0	0.87	9.33
N.human-men	(Figure 4)	95.2	21.6	96.2	19.2	100	0	100	0
*N.animate-men	(Figure 4)	57.9	49.7	49.3	50.3	26.0	44.2	43.8	49.8
*N.inanimate-men	(Figure 4)	29.8	46.0	12.2	32.9	1.35	11.6	5.26	22.4

 Table 7. Values of means and standard deviations in Figure 1-6.

CL.human N.human	(Figure 5)	91.4	28.3	97.4	16.1	100	0	100	0
CL.general N.human	(Figure 5)	87.7	33.I	88.3	32.3	89.3	31.1	78.4	41.4
*CL.human N.human-men	(Figure 5)	72.5	44.9	68.4	46.8	44.6	50.I	10.5	30.8
*CL.general N.human-men	(Figure 5)	61.7	48.9	59.2	49.5	29.7	46.0	7.89	27.I
D CL.human	(Figure 6)	87.2	33.7	93.4	25.0	96.0	19.7	96.5	18.4
D CL.general	(Figure 6)	89.7	30.5	91.9	27.8	90.7	29.3	93.0	25.7
D CL.animate	(Figure 6)	85.9	35.0	96.0	19.7	90.5	29.5	93.9	24.0
D CL.inanimate	(Figure 6)	84.3	36.6	97.3	16.3	97.3	16.3	99.I	9.33
*D-xie CL.human	(Figure 6)	70.5	45.9	62.2	48.8	27.8	45.I	2.61	16.0
*D-xie CL.general	(Figure 6)	68.8	46.6	49.3	50.3	25.4	43.8	0	0
*D-xie CL.animate	(Figure 6)	68.4	46.8	54.3	50.2	21.9	41.7	0	0
*D-xie CL.inanimate	(Figure 6)	71.1	45.6	54.I	50.2	18.3	39.0	0.87	9.32