DNA quantities and relationships

0 - 191

12 - 383

191 - 885

For MUCH more information (including histograms and company breakdowns) see: goo.gl/Z1EcJQ The Shared cM Project - Version 3.0 August 2017 How to read this chart: Great-Great-Great-GGGG-Blaine T. Bettinger Grandparent Aunt/Uncle Relationship www.TheGeneticGenealogist.com Aunt/Uncle CC 4.0 Attribution License Average 1750 4 GGG-Range (low-high) **Great-Grandparent** 1349 - 2175 4 Aunt/Uncle (99% Percentile) Other elationships 6C

Half GG- Aunt/Uncle 187 12 - 383			G		Great-Great Aunt/Uncle 427 191 – 885						
	Half Great- Aunt/Uncle 432 125 - 765			Grandparent 1766 1156 – 2311			Great Aunt/Uncle 914 251 - 2108				
		Half Aunt/Uncle 891 500 - 1446		Parent 3487 3330 - 3720		Aunt/Uncle 1750 1349 - 2175			***************************************	1100	
Half 3c 61 0 - 178	Half 2c 117 9 = 307	Half 1C 457 137 - 856	Half-Sibling 1783 1317 - 2312	Sibling 2629 2209 - 3384	SELF	1C 874 553 = 1225	2c 233 46 - 515	3c 74 0 - 217	4c 35 0 = 127	5e 25 0 = 94	

	Half Great- Aunt/Uncle 432 125 - 765			Grandparent 1766 1156 – 2311		Great Aunt/Uncle 914 251 – 2108				
		Half Aunt/Uncle 891 500 – 1446		Parent 3487 3330 - 3720		Aunt/Uncle 1750 1349 - 2175			***************************************	
Half 3c 61 0 - 178	Half 2e 117 9 - 397	Half 1C 457 137 - 856	Half-Sibling 1783 1317 - 2312	Sibling 2629 2209 - 3384	SELF	1C 874 553 - 1225	2c 233 46 - 515	3e 74 0 – 217	4c 35 0 - 127	5c 25 0 – 94
Half 3c1R	Half 2e1R	Half 1C1R	Half Niece/Nephew	Niece/Nephew 1750	Child 3487	1C1R 439	2c1R 123	3C1R 48	4C1R 28	5C1R

464 - 1486

		891 500 - 1446		3487 3330 - 3720		1750 1349 - 2175					0 - 72
Half 3c 61 0 - 178	Half 2c 117 9 - 397	Half 1C 457 137 - 856	Half-Sibling 1783 1317 - 2312	Sibling 2629 2209 - 3384	SELF	1C 874 553 = 1225	2e 233 46 – 515	3c 74 0 - 217	4c 35 0 - 127	5e 25 0 – 94	6C2R 17 0 = 75
Half 3c1R 42 0 - 165	Half 2c1R 73 0 - 341	Half 1C1R 226 57 - 530	Half Niece/Nephew 891 500 – 1446	Niece/Nephew 1750 1349 - 2175	Child 3487 3330 - 3720	1C1R 439 141 – 851	2c1R 123 0 - 316	3C1R 48 o - 173	4C1R 28 0 - 117	5C1R 21 0 - 79	7C 13 o - 57

3		900 1440					1				
Half 3c 61 0 - 178	Half 2e 117 9 - 397	Half 1C 457 137 - 856	Half-Sibling 1783 1317 - 2312	Sibling 2629 2209 - 3384	SELF	1C 874 553 - 1225	2e 233 46 – 515	3c 74 0 - 217	4c 35 0 - 127	5e 25 0 – 94	6C2R 17 0 - 75
Half 3c1R 42 0 - 165	Half 2e1R 73 0 - 341	Half 1C1R 226 57 - 530	Half Niece/Nephew 891 500 – 1446	Niece/Nephew 1750 1349 - 2175	Child 3487 3330 - 3720	1C1R 439 141 – 851	2c1R 123 0 - 316	3C1R 48 0 - 173	4C1R 28 0 - 117	5C1R 21 0 - 79	7C 13 o - 57
Half 3c2R 34	Half 2e2R 61	Half 1C2R	Half Great Niece/Nephew	Great- Niece/Nephew	Grandchild 1766	1C2R 229	2e2R 74	3C2R 35	4C2R 22	5C2R	7C1R 13

0 - 86

6C1R

0 - 50

0 - 82

0 - 44

Half 3c3R	Half 2e3R	Half 1C3R 87	Half GG Niece/Nephew	Great-Great- Niece/Nephew	Great- Grandchild 881	1C3R 123	2e3R 57	3C3R	4C3R	5C3R	8C
Half 3c2R 34 0 - 96	Half 2e2R 61 0 - 353	Half 1C2R 145 37 - 360	Half Great Niece/Nephew 432 125 - 765	Great- Niece/Nephew 910 251 - 2108	Grandchild 1766 1156 – 2311	1C2R 229 43 - 531	2e2R 74 0- 261	3C2R 35 0-116	4C2R 22 0 - 109	5C2R 17 0 - 43	7C1R 13 o - 53
42 o - 165	73 0 – 341	226 57 = 530	891 500 – 1446	1750 1349 - 2175	3487 3330 - 3720	439 141 – 851	123 o – 316	48 o – 173	28 0 – 117	21 0 - 79	13 o – 57

0 - 283

0 - 139

	DNA Detectives Auto
Created by Christa Stalcun	

DNA Detectives Autosomal Statistics Chart

©THEDNADETECTIVES, 2016

cM (centiMorgans)^		Percentage (%) of Shared DNA^^		Group	Relationship	Notes
Average	Range	Average	Range			
3,600		50%			Parent - Child	
2650	2300 - 3900	37%	32%-54%	Group A	Full Sibling	Ancestry, FTDNA and GEDmatch (HIR only)
3600	2300 - 3900	50%	3276-3476	Group A	Full Sibiling	23andMe (FIR included)
1800	1300 – 2300	25%	18%-32%	Group B	Half Sibling Aunt/Uncle/Niece/Nephew Double First Cousin Grandparent/Grandchild	3/4 Siblings^^^
900	575 - 1330	12.5%	8%-18.5%	Group C	First Cousin (1C) Half Aunt/Uncle/Niece/Nephew Great-Grandparent/Great-Grandchild Great-Aunt/Uncle/Niece/Nephew	
450	215 - 650	6.25%	3%-9%	Group D	First Cousin Once Removed (1C1R) Half First Cousin (½ 1C) Half Great-Aunt/Uncle/Niece/Nephew	
224	75 - 360	3.125%	1%-5%	Group E	Second Cousin (2C) First Cousin Twice Removed (1C2R) Half First Cousin Once Removed (½1C1R)	
112	30 - 215	1.56%	0.42% - 3%	Group F	Second Cousin Once Removed (2C1R) Half Second Cousin (½ 2C) First Cousin Three Times Removed (1C3R) Half First Cousin Twice Removed (½ 1C2R)	
56	0 - 109*	0.78%	0% - 1.52%	Group G	Third Cousin (3C) Second Cousin Twice Removed (2C2R)	~10% of 3Cs will not share DNA*
30	0 - 75**	0.4%	0%-1%	Group H	Third Cousin Once Removed (3C1R) Other Distant Cousins	~50% of 4Cs will not share DNA**

^cM =Ancestry.com & FTDNA ^^Percentage of DNA = 23AndMe Groups A & B: 99% within the ranges given Groups C - I: 95% within the ranges given

^^^ 3/4 Siblings are a combination of half siblings and 1st cousins, FIRs are included.