

The percentage of ancestors who can contribute to a person's X chromosome(s) decreases with each generation.

Percentage of a man's ancestors who can contribute to his X chromosome:

50.0%	1/2	parents
50.0%	2/4	grandparents
37.5%	3/8	g-grandparents
31.3%	5/16	gg-grandparents
25.0%	8/32	3g-grandparents
20.3%	13/64	4g-grandparents
16.4%	21/128	5g-grandparents
13.3%	34/256	6g-grandparents
10.7%	55/512	7g-grandparents
8.7%	89/1024	8g-grandparents
7.0%	144/2048	9g-grandparents
5.7%	233/4096	10g-grandparents

Percentage of a woman's ancestors who can contribute to her X chromosomes:

100.0%	2/2	parents
75.0%	3/4	grandparents
62.5%	5/8	g-grandparents
50.0%	8/16	gg-grandparents
40.6%	13/32	3g-grandparents
32.8%	21/64	4g-grandparents
26.6%	34/128	5g-grandparents
21.5%	55/256	6g-grandparents
17.4%	89/512	7g-grandparents
14.1%	144/1024	8g-grandparents
11.4%	233/2048	9g-grandparents
9.2%	377/4096	10g-grandparents