1. Write you answer as a single-digit number: 2

2. Write your answer as a single-digit number: 3

3. Write your answer as a single-digit number: 1

4. Write your answer as a three-digit number: 112

5. Write your answer as a single-digit number: 2

6. Write your answer as a single-digit number: 4

7. Write your answer as a single-digit number: 4

8. Write your answer as a single-digit number: 2

9. Write your answer as a single-digit number: 2

10. Write your answer as a single-digit number: 2

11. Write your answer as a three-digit number: 312

Selected cases in bold.

	Simple			**Stratified**	
ID	Sex	RN	ID	Sex	RN
5	**M**	**0.0279**	5	M	0.0279
10	**M**	**0.0325**	10	M	0.0325
11	F	0.0346	2	M	0.1196
2	**M**	**0.1196**	1	M	0.1822
14	F	0.1675	3	M	0.2598
1	**M**	**0.1822**	6	M	0.3025
3	**M**	**0.2598**	7	M	0.4308
6	**M**	**0.3025**	4	M	0.4594
19	F	0.3676	8	M	0.6663
15	F	0.4039	9	M	0.7921
7	M	0.4308	**11**	**F**	**0.0346**
4	M	0.4594	**14**	**F**	**0.1675**
8	M	0.6663	**19**	**F**	**0.3676**
20	F	0.7460	**15**	**F**	**0.4039**
12	F	0.7740	**20**	**F**	**0.7460**
9	M	0.7921	12	F	0.7740
18	F	0.7978	18	F	0.7978
17	F	0.8078	17	F	0.8078
16	F	0.8872	16	F	0.8872
13	F	0.9292	13	F	0.9292

12.

	$n = 10$	$n = 10,000$
$\mu_{\bar{X}}$	[a] 0.**10**	[c] 0.**10**
$\sigma_{\bar{X}}$	[b] 0.0**9**49	[d] 0.00**30**

For $n = 10$, $\mu_{\bar{X}} = \mu = 0.10$ and $\sigma_{\bar{X}} = \sigma/\sqrt{n} = 0.30/\sqrt{10} = 0.0949$; for $n = 10,000$,
$\mu_{\bar{X}} = \mu = 0.10$ and $\sigma_{\bar{X}} = \sigma/\sqrt{n} = 0.30/\sqrt{10000} = 0.0030$.

13.

For $n = 10$, $\bar{X} = Z?$ $\sigma_{\bar{X}}$ $\mu_{\bar{X}} = 0.6745?$ 0.0949 $0.1000 = 0.1640$; for $n = 10,000$,
$\bar{X} = Z?$ $\sigma_{\bar{X}}$ $\mu_{\bar{X}} = 0.6745?$ 0.0030 $0.1000 = 0.1020$.

14.

Percentiles

		Percentiles				
		5	10	25	50	75
Weighted Average (Definition 1)	n_10	.0000000	.0000000	.0000000	.1000000	.2000000
	n_10K	.0949000	.0961000	.0979000	.1000000	.1019000
Tukey's Hinges	n_10			.0000000	.1000000	.2000000
	n_10K			.0979000	.1000000	.1019000

15.

For $n = 10$, $|0.1640 - 0.2000| = 0.0360$; for $n = 10,000$, $|0.1020 - 0.1019| = 0.0001$.