

For: Exercises to Illustrate Confidence Intervals, Type I Errors and Statistical Power

BIRTHWEIGHTS

The entries in the 4 panels below represent birthweights, recorded to the nearest 10 grams, but with the ending 0 removed to save space. Thus the very first entry of 336 in Panel A represents a birthweight of 3360 grams or 3.36 Kg. The birthweights in a panel are all from infants of the same sex, but different panels may be from different sexes. The standard deviation of the entries in each panel is approximately $SD = 43$ (430 grams).

PANEL A

336	357	338	379	386	362	277	340	404	300
295	340	264	317	303	342	340	400	348	327
294	390	347	346	294	407	408	380	343	413
346	360	321	379	338	345	377	362	318	341
428	346	354	358	353	401	338	283	356	275
366	303	351	378	413	381	319	312	298	281
372	380	282	303	345	282	445	304	339	357
314	264	380	389	264	325	327	298	334	347
299	428	338	277	268	310	345	316	396	381
400	318	341	321	328	370	336	371	371	449

PANEL B

397	399	306	371	356	368	362	396	338	326
331	411	422	413	381	399	385	333	293	311
319	349	268	383	398	328	385	373	274	467
328	377	300	341	386	387	265	411	378	358
373	336	366	325	322	283	329	323	327	401
292	313	340	424	311	363	335	350	343	364
348	298	314	401	384	362	370	375	373	312
399	355	435	437	362	316	371	340	315	359
414	302	317	407	432	334	428	386	406	388
325	334	448	344	373	296	301	347	361	294

PANEL C

344	382	358	429	398	336	406	366	385	357
258	346	401	315	430	373	377	346	378	357
346	406	425	346	367	347	388	348	300	326
333	397	355	282	360	421	416	346	370	329
366	360	282	393	329	352	450	371	379	323
430	397	349	321	334	369	367	274	427	355
349	393	295	372	283	313	316	268	334	413
322	397	309	348	376	345	497	343	361	391
327	374	344	354	322	277	287	396	323	389
391	303	319	314	368	389	343	342	330	369

PANEL D

262	328	363	399	328	375	310	417	278	346
340	350	364	299	318	339	307	381	314	388
355	290	331	304	351	333	382	310	331	287
370	356	394	265	368	288	448	416	350	333
306	360	236	273	381	435	332	323	349	354
294	337	390	408	299	345	375	428	273	353
407	419	333	331	330	387	303	275	334	335
391	348	348	302	356	370	374	353	352	432
353	346	356	342	382	293	348	332	375	350
346	407	339	364	288	389	282	434	380	378

Key

Cailíní[céad/deireadh -- trí céad, daichead is a trí/seacht]
 Buachaillí [-- trí céad, deich is daichead, is a sé]

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ADULT HEIGHTS

The entries in the 4 panels below represent adult heights, recorded to the nearest centimetre. Thus the 1st entry (188) in Panel A represents a height of 188 cm or 1.68m. The birthweights in a panel are all from adults of the same sex, but different panels may be from different sexes. The standard deviation of the entries in each panel is approximately SD = 6cm.

PANEL A

188	178	175	168	169	171	170	166	161	171
180	178	184	174	168	176	175	167	182	177
181	183	185	178	165	172	178	176	164	186
176	179	169	169	184	169	173	173	173	177
177	170	179	183	183	172	189	181	174	171
170	182	163	171	176	176	183	181	174	175
171	167	175	175	174	168	170	175	185	181
183	180	178	170	174	173	176	173	175	173
165	172	175	183	167	171	176	182	174	170
187	185	167	169	168	178	182	178	171	175

PANEL B

156	159	169	161	157	158	171	166	169	170
168	170	175	171	167	168	160	170	173	165
160	162	156	150	168	157	168	167	159	168
159	165	165	165	164	163	159	169	176	176
166	155	164	162	172	172	156	166	166	161
165	162	177	162	160	171	164	174	164	173
174	160	164	163	171	172	159	157	159	168
161	166	160	167	168	162	158	154	159	167
166	163	166	177	168	172	177	169	175	166
158	156	165	161	162	157	168	163	167	166

PANEL C

171	175	178	168	181	177	185	174	177	177
169	174	184	173	182	179	178	167	186	175
176	172	176	174	174	170	184	173	174	174
179	177	177	176	171	161	172	168	177	176
186	172	173	184	167	161	166	171	180	163
181	176	179	176	170	172	165	178	174	182
169	179	176	183	172	172	170	178	179	178
179	166	174	184	169	164	177	180	183	172
183	164	178	166	177	186	174	179	175	179
183	165	174	173	172	171	176	188	181	169

PANEL D

165	161	168	155	172	160	176	170	162	161
167	158	155	163	158	159	174	179	161	157
176	171	160	164	167	173	174	163	162	157
155	167	161	163	169	168	158	166	160	167
163	162	165	167	169	161	174	164	154	174
171	168	162	173	164	172	170	166	165	163
166	168	158	161	175	164	164	164	167	173
162	164	161	169	170	157	164	169	161	166
174	168	174	168	156	160	153	167	167	156
176	165	161	164	161	163	168	161	173	166

Key

Fir [ar clé -- céad, deich is trí fichid, cúig]
 Mná [-- céad, trí fichid, cúig]