§ 17. Anthropometrical Measurements of Military Cadets.

1. General.—Under the Defence Act of 1910, the principle of compulsory training was brought into operation in Australia on 1st January, 1911. Advantage was taken of this to secure a record of certain measurements and other particulars in respect of the cadets subjected to inspection, and an analysis of the data so obtained concerning height, weight, and minimum chest measurement, according to age, is given hereunder for the year ended 30th June, 1912. These particulars are in respect of urban and rural areas combined and relate to the Commonwealth as a whole.

2. Height according to Age.—(i.) *Numerical and Proportionate Distribution.* Leaving out the cases in which height, age, or both were omitted from the record, the number of measurements available for the height analysis was 120,702, of which 98,980 were in the eight half-yearly age periods comprised between the ages of 13 and 17, the remaining six age periods containing but 21,722. The age period most largely represented was that from 13½ to 14. The succeeding tables give the number and proportion in each age and height group, also the proportions shewing the distribution according to height of 10,000·in each age period. Owing to the evident tendency to state measurements in whole and half inches, the figures obtained in respect of records involving half inches have been equally divided between the preceding and succeeding whole inch records, and the other fractions have been carried to the nearest inch, thus giving results approximately true to the nearest inch.

HEIGHT ACCORDING TO AGE.—DATA FOR THE WHOLE COMMONWEALTH FOR YEAR ENDED 30th JUNE, 1912.

NUMBER AND PROPORTION IN EACH GROUP.

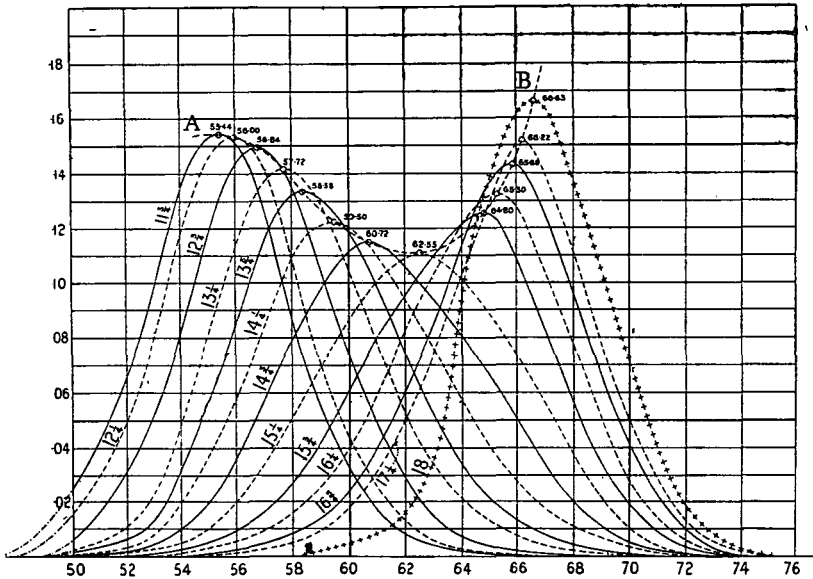| Height to nearest inch.	Age of Cadets (Males).														Total.
	11½ and under 12	12 and under 12½	12½ and under 13	13 and under 13½	13½ and under 14	14 and under 14½	14½ and under 15	15 and under 15½	15½ and under 16	16 and under 16½	16½ and under 17	17 and under 17½	17½ and under 18	18 and over.	
NUMBER OF CADETS.															
Inches. 50 & under	219	141	67	68	63	26	10	9	6	3	...	3	...	...	615
51 ...	247	184	67	68	59	30	16	7	6	4	1	...	...	...	689
52 ...	417	341	133	164	149	67	31	21	7	2	3	1	...	...	1,336
53 ...	606	537	245	387	332	166	79	49	19	5	5	4	...	...	2,434
54 ...	802	732	376	704	739	384	175	76	48	25	7	6	...	1	4,075
55 ...	796	773	547	1,038	1,139	628	323	191	77	50	17	6	...	...	5,585
56 ...	759	804	550	1,387	1,653	932	571	318	146	73	35	17	...	...	7,245
57 ...	545	676	579	1,554	2,073	1,295	835	502	259	146	65	15	...	...	8,544
58 ...	379	502	470	1,536	2,135	1,570	1,086	712	420	231	117	36	3	...	9,197
59 ...	221	310	341	1,301	1,968	1,613	1,232	908	575	364	168	77	2	...	9,100
60 ...	142	195	258	1,077	1,852	1,578	1,385	1,116	844	562	331	142	10	...	9,492
61 ...	67	95	157	718	1,362	1,371	1,363	1,263	1,036	798	548	212	8	2	9,000
62 ...	21	50	75	471	1,025	1,183	1,199	1,246	1,270	1,053	763	349	18	9	8,662
63 ...	17	24	42	294	712	871	1,073	1,294	1,302	1,268	1,081	531	52	25	8,586
64 ...	6	11	19	177	448	641	919	1,153	1,447	1,392	1,377	694	93	51	8,428
65 ...	7	5	12	113	283	417	750	967	1,335	1,494	1,527	806	117	70	7,902
66 ...	7	10	8	57	165	314	516	821	1,116	1,315	1,476	875	131	67	6,878
67 ...	5	7	1	35	83	168	293	529	811	1,065	1,221	745	104	73	5,140
68 ...	2	...	3	20	49	105	182	335	508	726	900	572	99	54	3,555
69 ...	2	...	2	17	22	68	82	184	291	426	566	371	64	43	2,138
70 ...	1	3	1	10	18	34	41	87	153	211	340	236	48	24	1,207
71 ...	...	...	...	6	8	8	23	35	62	107	169	114	19	11	562
72 ...	...	...	...	...	3	2	8	19	26	44	72	43	11	5	233
73 ...	...	...	...	1	...	...	2	5	4	16	19	17	4	2	70
74 ...	...	...	...	...	...	1	...	1	3	5	4	7	...	...	21
75 ...	...	...	...	1	...	...	1	1	...	2	1	1	...	1	8
Total ...	5,268	5,400	3,953	11,204	16,339	13,472	12,195	11,849	11,701	11,387	10,833	5,880	783	438	120,702

HEIGHT ACCORDING TO AGE.—DATA FOR THE WHOLE COMMONWEALTH FOR YEAR ENDED 30TH JUNE, 1912—Continued.

PROPORTIONATE DISTRIBUTION OF THE NUMBER IN EACH AGE GROUP ACCORDING TO HEIGHT.

Height to nearest inch.	Age of Cadets (Males).														
	11½ and under 12	12 and under 12½	12½ and under 13	13 and under 13½	13½ and under 14	14 and under 14½	14½ and under 15	15 and under 15½	15½ and under 16	16 and under 16½	16½ and under 17	17 and under 17½	17½ and under 18	18 and over.	17½ and over.
Inches.															
50 & under	416	261	169	61	39	19	8	8	5	3	...	5	...	...	...
51 ...	469	341	169	61	36	22	13	6	5	4	1	...	...	...	...
52 ...	792	631	336	146	91	50	25	18	6	2	3	2	...	...	...
53 ...	1,150	994	620	346	203	123	65	41	16	4	5	7	...	...	...
54 ...	1,522	1,356	951	628	452	285	143	64	41	22	6	10	...	23	8
55 ...	1,511	1,431	1,384	927	697	466	265	161	66	44	16	10	...	...	...
56 ...	1,441	1,489	1,391	1,238	1,012	692	468	268	125	64	32	29	...	...	...
57 ...	1,035	1,252	1,465	1,397	1,269	961	685	424	221	128	60	25	...	...	...
58 ...	720	930	1,189	1,371	1,307	1,165	891	601	359	203	108	61	38	...	25
59 ...	419	574	863	1,161	1,204	1,197	1,010	766	492	320	173	131	26	...	16
60 ...	269	361	653	961	1,133	1,171	1,136	942	721	493	306	241	128	...	82
61 ...	127	176	397	641	834	1,018	1,118	1,056	885	701	506	361	102	45	82
62 ...	40	93	190	420	627	878	983	1,052	1,026	925	704	594	230	206	221
63 ...	32	44	106	262	436	647	880	1,092	1,113	1,114	998	903	664	571	631
64 ...	11	20	48	158	274	476	754	973	1,237	1,222	1,271	1,180	1,188	1,164	1,179
65 ...	13	9	30	101	173	310	615	816	1,141	1,312	1,410	1,371	1,494	1,598	1,531
66 ...	13	19	20	51	101	233	423	693	954	1,155	1,363	1,488	1,673	1,530	1,622
67 ...	10	13	3	31	51	125	240	446	693	935	1,127	1,267	1,328	1,667	1,450
68 ...	4	...	8	18	30	78	149	283	434	637	831	973	1,264	1,233	1,253
69 ...	4	...	5	15	13	50	67	155	249	374	522	631	817	982	876
70 ...	2	6	3	9	11	25	34	73	131	185	314	401	613	548	590
71 ...	...	...	...	5	5	6	19	30	53	94	156	194	243	251	246
72 ...	...	...	...	...	2	2	6	16	22	39	66	73	141	114	131
73 ...	...	...	...	1	...	...	2	4	3	14	17	29	51	45	49
74 ...	...	...	...	...	...	1	...	1	2	4	4	12	...	...	...
75 ...	...	...	...	1	...	...	1	1	...	2	1	2	...	23	8
Total ...	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000

(ii.) *Graphical Representation.* Further facilities for the study of the data in respect of heights are furnished by the graph relative thereto which appears below. In the preparation of this graph the data given in the foregoing table in respect of proportionate distribution were plotted as a series of rectangles on units of abscissæ representing the successive heights in inches. Smooth curves were then drawn through the upper portions of these rectangles, and these after adjustment to accord closely with the data, and after slight graduation, gave the results produced in the graph. As will be seen from the table hereinafter on page 1205, there is a tendency towards symmetry in all the curves, the general trend being that of progress from negative skewness at the lower ages through a range of positive skewness to negative skewness again at the higher ages, the deviations from symmetry being relatively small in all cases. The curve marked A B is that which passes through the maximum points of the curves for successive age periods. Its minimum value corresponds to a height of 62.22 inches and accords fairly closely with the mode for the curve for age 15¼, indicating that for the ages under review the scatter of the distribution in respect of height is greatest in the neighbourhood of that age. The curve marked 18 has been obtained from a combination of the numbers recorded for the age periods "17¼ to 18" and "18 and over." The portions of the curves corresponding to abscissæ earlier than 50 have been inserted by graphical extrapolation. The mean height of the 120,702 cadets recorded was 60.81 inches, whilst the average of the mean heights for the successive age periods was 60.80 inches.

PROPORTIONATE DISTRIBUTION OF CADETS IN EACH AGE GROUP ACCORDING TO HEIGHT.

DESCRIPTION OF GRAPH.—The base of each small rectangle represents two inches, while the vertical height represents a proportionate distribution of .01. The figures written at the base indicate the heights of the Cadets in inches, while those written along the curves indicate the central age of the age group. The number written at the maximum point of each curve is its mode.

3. **Weight According to Age.**—(i.) *Numerical and Proportionate Distribution.* Exclusive of the cases in which weight, age, or both were unrecorded, the number of cases available for the weight analysis was 119,960, the age distribution being sensibly the same as that in the case of heights. The next table gives the number and proportion in each age and weight group, the proportions shewing the distribution according to weight of 10,000 in each age period.

WEIGHT ACCORDING TO AGE—DATA FOR THE WHOLE COMMONWEALTH FOR YEAR ENDED 30th JUNE, 1912.

NUMBER AND PROPORTION IN EACH GROUP.

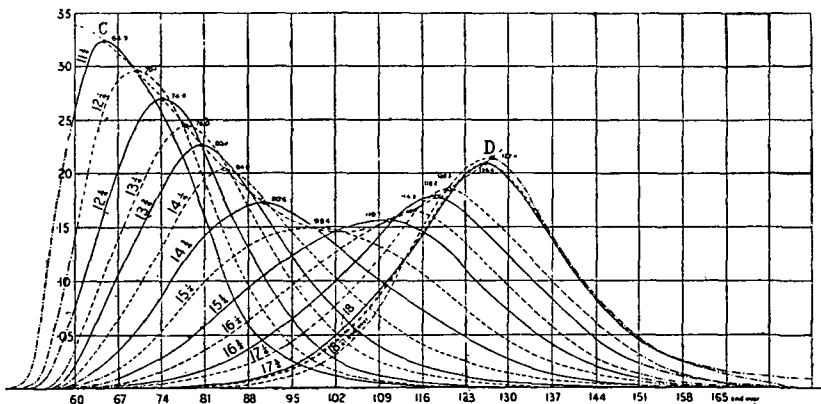| Weight to nearest lb.	Age of Cadets (Males).														Total.
	11½ and under 12	12 and under 12½	12½ and under 13	13 and under 13½	13½ and under 14	14 and under 14½	14½ and under 15	15 and under 15½	15½ and under 16	16 and under 16½	16½ and under 17	17 and under 17½	17½ and under 18	18 years and over	
NUMBER OF CADETS.															
66 & under	1,726	1,338	606	1,020	1,053	499	247	109	43	19	4	7	...	...	6,671
67-73	1,516	1,542	988	2,017	2,399	1,342	694	373	195	93	44	14	...	...	11,217
74-80	1,126	1,341	1,009	2,810	3,634	2,266	1,451	931	465	263	113	41	4	...	15,454
81-87	543	639	672	2,153	3,272	2,615	1,860	1,378	840	545	271	107	3	1	14,899
88-94	195	329	387	1,541	2,451	2,243	2,048	1,677	1,205	916	490	197	5	2	13,686
95-101	89	116	163	786	1,547	1,663	1,786	1,720	1,634	1,252	916	374	29	10	12,085
102-108	34	42	59	397	884	1,166	1,393	1,676	1,760	1,575	1,314	603	53	22	10,978
109-115	10	14	27	210	480	716	1,105	1,438	1,715	1,757	1,705	883	86	47	10,193
116-122	2	5	15	116	256	431	715	1,057	1,531	1,815	1,968	1,049	135	81	9,076
123-129	1	1	7	35	116	218	423	672	972	1,317	1,534	893	153	81	6,423
130-136	2	3	5	18	59	119	233	409	674	870	1,189	749	136	81	4,547
137-143	...	3	...	14	28	59	99	194	323	483	663	462	83	38	2,449
144-150	...	2	...	4	17	23	38	97	170	241	356	272	45	40	1,305
151-157	...	...	1	3	4	11	26	29	61	92	163	100	27	14	531
158-164	...	...	1	2	1	2	6	18	30	35	75	40	15	7	232
165 & over	...	1	...	...	8	4	16	15	25	30	59	44	4	8	214
Total ...	5,244	5,376	3,940	11,126	16,209	13,377	12,140	11,793	11,643	11,303	10,764	5,835	778	432	119,960

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WEIGHT ACCORDING TO AGE.—DATA FOR THE WHOLE COMMONWEALTH FOR THE YEAR ENDED 30TH JUNE, 1912—Continued.

PROPORTIONATE DISTRIBUTION OF EACH AGE GROUP ACCORDING TO WEIGHT.

Weight to nearest lb.	Age of Cadets (Males).														
	11½ and under 12	12 and under 12½	12½ and under 13	13 and under 13½	13½ and under 14	14 and under 14½	14½ and under 15	15 and under 15½	15½ and under 16	16 and under 16½	16½ and under 17	17 and under 17½	17½ and under 18	18 years and over	17¾ years and over
66 & under	3.291	2,489	1,538	917	650	373	203	92	37	17	4	12	...	...	...
67-73 ...	2,891	2,868	2,507	1,813	1,480	1,003	572	316	163	82	41	24	...	...	...
74-80 ...	2,147	2,494	2,561	2,396	2,137	1,639	1,195	789	399	233	105	70	51	...	33
81-87 ...	1.035	1,188	1,706	2,064	2,124	2,010	1,532	1 169	721	482	252	183	39	23	33
88-94 ...	372	612	982	1,385	1,512	1,677	1,687	1,422	1,035	810	455	338	64	46	58
95-101 ...	170	216	414	706	954	1,243	1,471	1,459	1,404	1,108	851	641	373	232	322
102-108 ...	65	78	150	357	545	872	1,148	1,421	1,453	1,349	1,170	1,033	681	509	620
109-115 ...	19	26	68	189	296	535	910	1,219	1,531	1,599	1,634	1,513	1,105	1,088	1,099
116-122 ...	4	9	38	104	158	310	589	896	1,315	1,606	1,735	1,798	1,735	1,875	1,785
123-129 ...	2	2	18	31	72	175	349	570	835	1,166	1,425	1,531	1,967	1,875	1,934
130-136 ...	4	6	13	16	36	89	192	347	579	769	1,105	1,284	1,748	1,875	1,793
137-143 ...	...	6	...	13	17	44	82	165	277	427	616	792	1,067	880	1,000
144-150 ...	...	4	...	...	11	17	31	82	146	213	331	466	579	926	703
151-157 ...	...ᵉ	...	3	3	2	8	21	25	52	81	151	171	347	324	339
158-164 ...	...	...	2	2	1	2	5	15	26	31	70	69	193	162	182
165 & over	...	2	...	...	5	3	13	13	22	27	55	75	51	185	99
Total ...	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000

(ii.) **Graphical Representation.**—The graph given below relative to weights has been constructed on principles similar to those described in the case of the height graph. In this case also there is a marked tendency towards symmetry in all the curves, the general trend being from positive skewness at the earlier ages to negative skewness at the later ages, with relatively small deviation from symmetry in any case. The curve marked C D is that which passes through the maximum points of the

PROPORTIONATE DISTRIBUTION OF CADETS IN EACH AGE GROUP
ACCORDING TO WEIGHT.

DESCRIPTION OF GRAPH.—The base of each small rectangle represents 7 lbs., while the vertical height represents a proportionate distribution of .05. The figures written at the base indicate the weights of the Cadets in lbs., while those written along the curves indicate the central age of the age group. The number written at the maximum point of each curve is its mode.

curves for successive age periods.   Its minimum value corresponds to a weight of 103 lbs., and would accord approximately with the mode for a curve for age 15¼, indicating that for the ages under review the scatter of distribution in respect of weight is greatest in the neighbourhood of that age.   The curve marked "18" has been obtained from a combination of the numbers recorded for the age periods "17½ to 18" and "18 and over."   The portions of the curves corresponding to abscissæ earlier than 60 and later than 151 have been inserted by graphical extrapolation.   The mean weight of the 119,960 cadets was 96.35 lbs., while the average of the mean weights for the several age periods was 96.98 lbs.

4. **Chest Measurement according to Age.**—(i.) *Numerical and Proportionate Distribution.*   Excluding the cases in which chest measurement, age, or both were unrecorded, the number of cases available for analysis in respect of chest measurement was 120,054, the age distribution being sensibly the same as for heights and weights. The following table gives the number and proportions in each age and minimum chest group, the proportions shewing the distribution according to the minimum chest measurement of 10,000 in each age period.   Owing to the evident tendency to state measurements in whole inches, the figures obtained in respect of records involving half inches have been equally divided between the preceding and succeeding whole inch records, thus giving results approximately true to the nearest inch.

MINIMUM CHEST MEASUREMENT ACCORDING TO AGE.   DATA FOR THE WHOLE COMMONWEALTH FOR YEAR ENDED 30th JUNE, 1912.

NUMBER AND PROPORTION IN EACH GROUP.

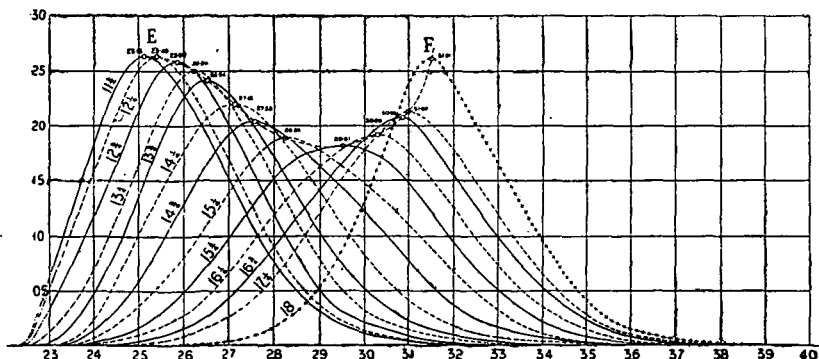| Minimum Chest Measurement to nearest inch.	Age of Cadets (Males).														Total.
	11½ and under 12	12 and under 12½	12½ and under 13	13 and under 13½	13½ and under 14	14 and under 14½	14½ and under 15	15 and under 15½	15½ and under 16	16 and under 16½	16½ and under 17	17 and under 17½	17½ and under 18	18 and over.	

NUMBER OF CADETS.

	11½–12	12–12½	12½–13	13–13½	13½–14	14–14½	14½–15	15–15½	15½–16	16–16½	16½–17	17–17½	17½–18	18 & over	Total
23 & under	658	473	273	436	275	92	52	33	18	9	·2	...	...	...	2,321
24	1,214	1,148	606	1,248	1,536	806	439	232	105	53	22	7	1	...	7,417
25	1,299	1,350	924	2,334	2,973	1,815	1,115	641	387	206	104	27	1	...	13,176
26	1,050	1,153	909	2,627	3,805	2,707	1,926	1,316	840	516	251	99	1	...	17,200
27	593	694	650	2,190	3,346	2,869	2,333	1,962	1,491	1,040	667	244	10	1	18,090
28	253	330	313	1,229	2,165	2,238	2,199	2,196	1,937	1,588	1,169	528	24	10	16,179
29	104	120	112	607	1,167	1,453	1,750	1,882	2,093	2,008	1,753	864	70	34	14,022
30	30	37	63	239	569	766	1,165	1,607	1,962	2,152	2,133	1,130	163	62	12,078
31	10	19	20	113	267	394	673	1,004	1,447	1,725	1,964	1,141	196	103	9,076
32	5	7	12	41	86	174	307	537	774	1,081	1,378	897	145	80	5,524
33	...	4	5	22	52	66	128	252	372	561	767	491	93	80	2,893
34	1	4	4	5	17	31	51	95	154	271	382	259	37	41	1,352
35	...	...	...	3	3	10	15	30	53	87	134	89	14	13	451
36	...	..	1	3	3	3	8	14	14	29	45	39	5	5	169
37	...	...	...	...	1	1	1	5	8	10	11	14	1	3	55
38	...	1	...	1	2	1	1	...	4	3	5	5	1	1	25
39	...	...	...	1	2	...	...	...	2	4	1	1	...	1	12
40	...	...	...	...	...	...	...	1	1	...	1	2	...	...	5
41	...	...	...	...	...	...	1	1	...	1	...	...	...	...	3
42	...	...	...	...	...	2	1	...	...	1	...	...	...	...	4
43	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
44 and over	...	...	...	...	...	...	...	...	1	...	1	...	...	...	2
Total ...	5,217	5,340	3,892	11,099	16,269	13,428	12,165	11,808	11,663	11,345	10,795	5,837	762	434	120,054

PROPORTIONATE DISTRIBUTION OF EACH AGE GROUP ACCORDING TO MINIMUM CHEST MEASUREMENT.

Minimum Chest Measurement to nearest inch.	Age of Cadets (Males.)														
	11½ and under 12	12 and under 12½	12½ and under 13	13 and under 13½	13½ and under 14	14 and under 14½	14½ and under 15	15 and under 15½	15½ and under 16	16 and under 16½	16½ and under 17	17 and under 17½	17½ and under 18	18 and over	17½ and over.
23 & under	1,261	886	701	393	169	69	43	28	15	8	2	...	...	...	...
24 ...	2,327	2,150	1,557	1,124	944	600	361	196	90	47	20	12	13	...	8
25 ...	2,490	2,528	2,374	2,103	1,827	1,352	916	543	332	181	96	46	13	...	8
26 ...	2,013	2,159	2,336	2,367	2,339	2,016	1,583	1,115	720	455	233	170	13	...	9
27 ...	1,137	1,300	1,670	1,973	2,057	2,137	1,918	1,662	1,278	917	618	418	131	23	92
28 ...	485	618	804	1,107	1,331	1,667	1,808	1,860	1,661	1,400	1,083	904	315	230	284
29 ...	199	225	288	547	717	1,082	1,439	1,594	1,795	1,770	1,628	1,480	919	784	870
30 ...	58	69	162	215	350	570	958	1,361	1,682	1,897	1,976	1,936	2,139	1,429	1,881
31 ...	19	36	51	102	164	293	553	850	1,241	1,520	1,819	1,955	2,572	2,373	2,500
32 ...	9	13	31	37	53	130	252	455	664	953	1,276	1,537	1,903	1,843	1,881
33 ...	...	7	13	20	32	49	105	213	319	494	711	841	1,220	1,843	1,447
34 ...	2	7	10	4	10	23	42	80	132	239	354	444	486	945	652
35 ...	...	...	...	3	2	7	12	25	45	77	124	152	184	300	226
36 ...	...	...	3	3	2	2	6	12	12	25	42	67	66	115	84
37 ...	...	...	...	...	1	1	1	4	7	9	10	24	13	69	34
38 ...	...	2	...	1	1	1	1	...	3	3	5	9	13	23	16
39 ...	...	...	...	1	1	...	...	...	2	3	1	2	...	23	8
40 ...	...	...	...	...	...	...	...	1	1	...	1	3	...	...	...
41 ...	...	...	...	...	...	...	1	1	...	1	...	...	...	...	...
42 ...	...	...	...	...	...	1	1	...	...	1	...	...	...	...	...
43 ...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
44 and over	...	...	...	...	...	...	...	...	1	...	1	...	...	...	...
Total ...	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000	10,000

(ii.) *Graphical Representation.*—The graph given below relative to minimum chest measurement has been constructed on similar lines to those described in the case of the height graph. In this case the tendency towards symmetry is less marked than with heights or weights. The general trend is from well marked positive skewness at the lower ages to less defined negative skewness or symmetry at the higher ages. The curve for 18, which deviates slightly from this trend by giving positive skewness, is based on relatively meagre data.

PROPORTIONATE DISTRIBUTION OF CADETS IN EACH AGE GROUP ACCORDING TO MINIMUM CHEST MEASUREMENT.

DESCRIPTION OF GRAPH.—The base of each small rectangle represents one inch, while the vertical height represents a proportionate distribution of .05. The figures written at the base indicate the minimum chest measurements of the Cadets in inches, while those written along the curves indicate the central age of the age group. The number written at the maximum point of each curve is its mode.

The curve marked E F is that which passes through the maximum points of the curves for the several age periods. Its minimum value corresponds to a chest measurement of 29.12 inches, and would accord with the mode for an age slightly above 15½, indicating that for the ages under review the scatter of distribution in respect of minimum chest measurement is greatest in the neighbourhood of that age. The curve marked "18" has been obtained from a combination of the numbers recorded for the age periods "17½ to 18" and "18 and over." The portions of the curves corresponding to abscissæ earlier than 23 have been inserted by graphical extrapolation. The mean minimum chest measurement of the 120,054 cadets was 27.84 inches, whilst the average of the means for the several age periods was 27.92 inches.

5. **Skewness of Curves.**—The following table, which has been referred to above, furnishes particulars of the means and modes of the several curves and thus indicates the nature and extent of their deviation from symmetry :—

TABLE OF MEANS AND MODES OF HEIGHTS, WEIGHTS AND MINIMUM CHEST MEASUREMENTS, AT AGES 11¾ TO 18.

Ages.	11¾	12¼	12¾	13¼	13¾	14¼	14¾	15¼	15¾	16¼	16¾	17¼	18
HEIGHTS (IN INCHES).													
Mean	55.0	55.6	56.6	57.8	58.6	59.7	60.9	62.1	63.2	64.1	65.0	65.4	66.3
Mode	55.4	56.0	56.8	57.7	58.4	59.5	60.7	62.6	64.8	65.3	65.9	66.2	66.6
Mean—Mode	− 0.4	− 0.4	− 0.2	+ 0.1	+ 0.2	+ 0.2	+ 0.2	− 0.5	− 1.6	− 1.2	− 0.9	− 0.8	− 0.3
WEIGHTS (IN LBS.)													
Mean	71.9	74.0	77.5	81.7	84.7	89.6	95.6	101.4	107.6	112.2	117.5	120.3	126.8
Mode	64.9	70.1	74.3	78.0	80.7	84.2	90.6	98.4	110.7	114.2	118.2	120.3	126.4
Mean—Mode	+ 7.0	+ 3.9	+ 3.2	+ 3.7	+ 4.0	+ 5.4	+ 5.0	+ 3.0	− 3.1	− 2.0	− 0.7	0.0	+ 0.4
MINIMUM CHEST MEASUREMENTS (IN INCHES).													
Mean	25.2	25.4	25.8	26.2	26.5	27.1	27.7	28.4	29.0	29.6	30.2	30.5	31.4
Mode	25.1	25.4	25.9	26.2	26.5	27.1	27.6	28.3	29.5	30.3	30.9	31.0	31.5
Mean—Mode	+ 0.1	0.0	− 0.1	0.0	0.0	0.0	+ 0.1	+ 0.1	− 0.5	− 0.7	− 0 7	− 0.5	− 0.1