

# ERGONOMIC RESEARCH

Downwards onto a table at waist level

age	sex	#	kg
4	mf	41	35.81
5	mf	49	40.79
6	mf	51	60.08
7	mf	47	66.14

Horizontally into a wall directly above the head

age	sex	#	kg
4	mf	41	27.86
5	mf	49	34.34
6	mf	51	44.22
7	mf	47	48.87

Horizontally into a wall at shoulder level

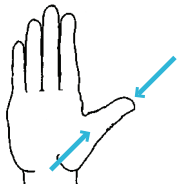
age	sex	#	kg
4	mf	41	9.28
5	mf	49	9.53
6	mf	51	15.34
7	mf	47	8.58

Horizontally into a wall above the head and away from the body

age	sex	#	kg
4	mf	41	11.32
5	mf	49	10.08
6	mf	51	13.77
7	mf	47	12.92

Horizontally into the wall level at hip level

age	sex	#	kg
4	mf	41	4.91
5	mf	49	8.06
6	mf	51	9.25
7	mf	47	9.73



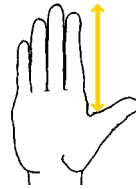
THUMB LENGTH

age	sex	#	cm
5	m		4.1
6	m		4.3
7	m		4.6
8	m		4.7
9	m		5.0
10	m		5.3



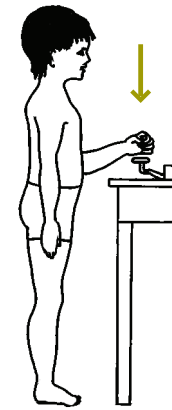
HAND LENGTH

age	sex	#	cm
5.5	m	24	8.9
6.5	m	29	9.7
7.5	m	30	9.6
8.5	m	39	10.3
9.5	m	46	10.8
10.5	m	52	11.2

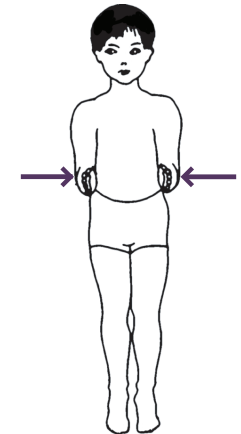


HAND LENGTH

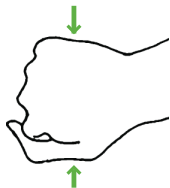
age	sex	#	cm
5	m		12.5
6	m		13.0
7	m		13.5
8	m		14.0
9	m		14.5
10	m		15.0



HITTING FORCE

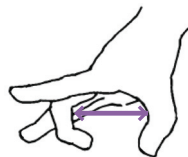


Elbow Breadth



FIST BREADTH

age	sex	#	cm
5.5	mf	62	6.30
6.5	mf	63	6.70
7.5	mf	60	6.90
8.5	mf	79	7.10
9.5	mf	93	7.30
10.5	mf	99	7.60



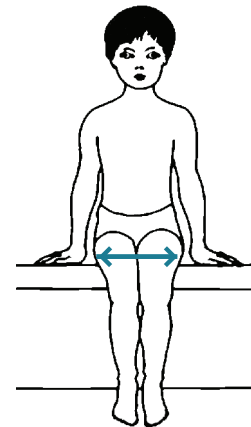
GRIP LENGTH

age	sex	#	cm
5.5	mf	61	7.00
6.5	mf	62	7.50
7.5	mf	59	7.60
8.5	mf	78	8.10
9.5	mf	92	8.50
10.5	mf	98	8.90



GRIP DIAMETER

age	sex	#	cm
5.5-6	m	125	3.35
6-6.5	m	94	3.46
6.5-7	m	77	3.57
7	m	76	3.65
8	m	133	3.81
9	m	128	3.93
10	m	106	4.12



Thigh Breadth

age	sex	#	cm
5.5	m	24	8.9
6.5	m	29	9.7
7.5	m	30	9.6
8.5	m	39	10.3
9.5	m	46	10.8
10.5	m	52	11.2