



DISKURAMA (LSW)

Yearly age
coefficients

Diskurama **regulations** can be found at:

<http://www.joomla.lsw-spezialeport.de/Anlagen/LSW-Wettkampfordnung.pdf>

Lithuania is a small country, so often in different age groups participate one, two athletes only (in some age groups there are no sportsmen). Thus, yearly age coefficients are not only desirable, they are necessary in Lithuania. We hope that other countries will use the Lithuanian yearly age coefficients too.

Yearly age coefficients are determined using the exponential function: $k = A \cdot e^{a+b \cdot m^n}$. In equation, k is yearly age coefficient, A is the coefficient, which evaluates the increase of result (decrease of yearly age coefficient) when the mass of shots is changing, m is the age of the athlete (in years) at the time of sport event (it is calculated by deducting athlete's birthday from the first day of the competition), a and b are coefficients that depend on the statistically obtained averages of the results in age groups, n is the exponent.

Men	Women
$k = e^{(0,0680) + 0,00001380m^{2,5}}$	$k = e^{(0,0680) + 0,00001380m^{2,5}}$
when $m \leq 49$, $A=1.0000$, when $50 \leq m \leq 59$, $A=0.9180$, when $60 \leq m \leq 69$, $A=0.8320$, when $m \geq 70$, $A=0.7300$.	for all sportsmen $A=1.0000$.

Note. Yearly age coefficients are presented in the table. Their meanings are rounded to four significant digits. These rounded meanings should be used on computer programs; otherwise the results calculated using the formula given and results presented in the table will differ slightly.



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Men	Age	Women
1.000	30	1.000
1.006	31	1.006
1.012	32	1.012
1.018	33	1.018
1.025	34	1.025
1.033	35	1.033
1.040	36	1.040
1.048	37	1.048
1.056	38	1.056
1.065	39	1.065
1.074	40	1.074
1.084	41	1.084
1.094	42	1.094
1.104	43	1.104
1.115	44	1.115
1.127	45	1.127
1.139	46	1.139
1.151	47	1.151
1.164	48	1.164
1.178	49	1.178
1.095	50	1.192
1.108	51	1.207
1.122	52	1.223
1.137	53	1.239
1.153	54	1.256
1.169	55	1.273
1.186	56	1.292
1.203	57	1.311
1.221	58	1.330
1.240	59	1.351
1.142	60	1.373
1.161	61	1.395
1.180	62	1.419
1.201	63	1.443
1.222	64	1.468
1.244	65	1.495
1.267	66	1.523
1.291	67	1.551
1.316	68	1.581
1.342	69	1.612
1.201	70	1.645
1.226	71	1.679
1.251	72	1.714
1.278	73	1.751
1.307	74	1.790
1.336	75	1.830
1.366	76	1.872
1.398	77	1.915
1.432	78	1.961
1.466	79	2.009
1.503	80	2.058
1.541	81	2.110
1.580	82	2.165
1.622	83	2.221
1.665	84	2.281
1.710	85	2.343
1.757	86	2.407
1.807	87	2.475
1.859	88	2.546
1.913	89	2.620
1.969	90	2.698