

číslo	sex	výška	hmotnost	Vi - mV	Hi - mH	( ) x ( )	
1	1	180	95	6.3	19.05	120.015	
2	2	168	72	-5.7	-3.95	22.515	
3	1	172	80	-1.7	4.05	-6.885	$r_{xy} =$
4	2	170	59	-3.7	-16.95	62.715	
5	2	175	60	1.3	-15.95	-20.735	
6	1	190	100	16.3	24.05	392.015	
7	2	160	120	-13.7	44.05	-603.485	$c_{xy} =$
8	1	205	80	31.3	4.05	126.765	
9	1	178	63	4.3	-12.95	-55.685	
10	2	165	59	-8.7	-16.95	147.465	$r_{xy}^2$
11	1	182	71	8.3	-4.95	-41.085	
12	2	175	50	1.3	-25.95	-33.735	
13	1	165	78	-8.7	2.05	-17.835	
14	2	155	50	-18.7	-25.95	485.265	
15	1	179	120	5.3	44.05	233.465	
16	1	171	80	-2.7	4.05	-10.935	
17	1	193	90	19.3	14.05	271.165	
18	2	167	57	-6.7	-18.95	126.965	
19	1	170	90	-3.7	14.05	-51.985	
20	2	154	45	-19.7	-30.95	609.715	
Průměr		173.7	75.95				
SD		12.49884205	21.729134				
				r		0.340239	c
				r		0.340239	$r^2$
				t		1.535099	
				df		18	
				p		0.14215	

$$\frac{1}{N-1} \sum_{i=1}^N \frac{(x_i - m_x)(y_i - m_y)}{s_x s_y}$$

$s_x r_{xy} s_y$

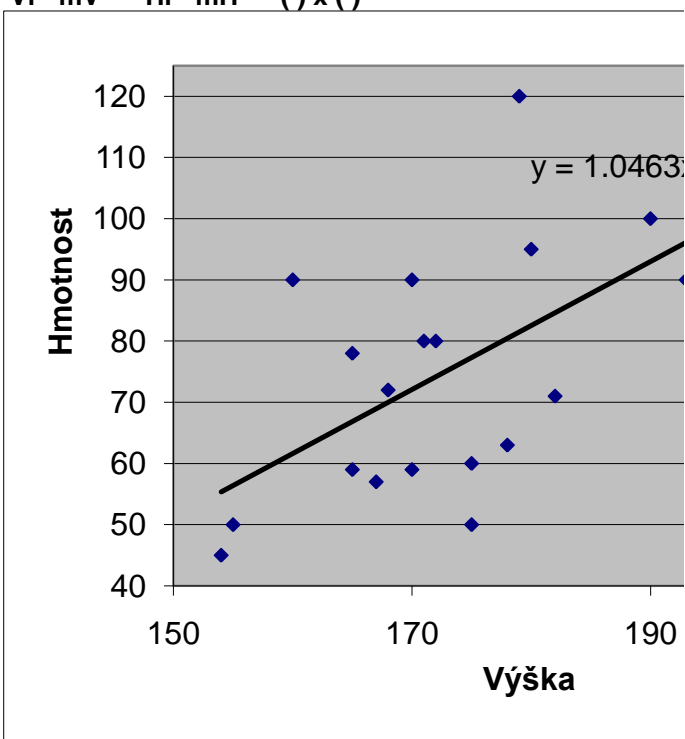
koeficient determinace

92.40526  
0.115763

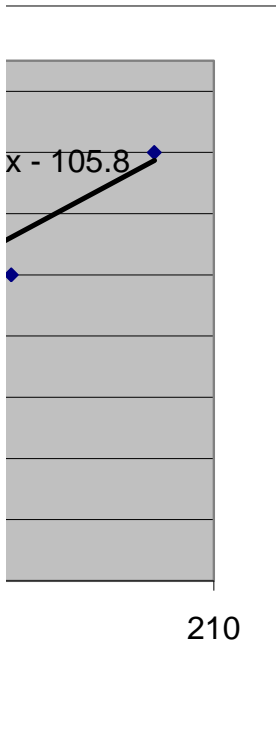
číslo	sex	výška	hmotnost	Vi - mV	Hi - mH	( ) x ( )
1	1	180	95			
2	2	168	72			
3	1	172	80			
4	2	170	59			
5	2	175	60			
6	1	190	100			
7	2	<b>160</b>	<b>90</b>			
8	1	<b>205</b>	<b>110</b>			
9	1	178	63			
10	2	165	59			
11	1	182	71			
12	2	175	50			
13	1	165	78			
14	2	155	50			
15	1	179	120			
16	1	171	80			
17	1	193	90			
18	2	167	57			
19	1	170	90			
20	2	154	45			

Průměr  
SD

173.7 75.95  
12.49884205 20.98991



r	0.623054	c
r	0.623054	r <sup>2</sup>
t	3.379525	
df	18	
p	0.00334	



$$(x_i - m_x)(y_i - m_y)$$

$$s_x s_y$$

163.4579  
0.388196

číslo	sex	výška	hmotnost	Vi - mV	Hi - mH	( ) x ( )	H <sub>stř</sub>	e
1	1	180	95	6.3	19.05	120.015	82.54184	12.45816
2	2	168	72	-5.7	-3.95	22.515	69.98595	2.014049
3	1	172	80	-1.7	4.05	-6.885	74.17125	5.828751
4	2	170	59	-3.7	-16.95	62.715	72.0786	-13.0786
5	2	175	60	1.3	-15.95	-20.735	77.31022	-17.3102
6	1	190	100	16.3	24.05	392.015	93.00509	6.994913
7	2	<b>160</b>	<b>90</b>	-13.7	14.05	-192.485	61.61536	28.38464
8	1	<b>205</b>	<b>110</b>	31.3	34.05	1065.765	108.7	1.300047
9	1	178	63	4.3	-12.95	-55.685	80.44919	-17.4492
10	2	165	59	-8.7	-16.95	147.465	66.84698	-7.84698
11	1	182	71	8.3	-4.95	-41.085	84.63449	-13.6345
12	2	175	50	1.3	-25.95	-33.735	77.31022	-27.3102
13	1	165	78	-8.7	2.05	-17.835	66.84698	11.15302
14	2	155	50	-18.7	-25.95	485.265	56.38373	-6.38373
15	1	179	120	5.3	44.05	233.465	81.49552	38.50448
16	1	171	80	-2.7	4.05	-10.935	73.12492	6.875076
17	1	193	90	19.3	14.05	271.165	96.14406	-6.14406
18	2	167	57	-6.7	-18.95	126.965	68.93963	-11.9396
19	1	170	90	-3.7	14.05	-51.985	72.0786	17.9214
20	2	154	45	-19.7	-30.95	609.715	55.33741	-10.3374

Průměr  
SD

173.7 75.95  
12.49884205 20.98991

r 0.623054 c  
r 0.623054 r<sup>2</sup>  
t 3.379525  
df 18  
p 0.00334

$$r_{xy} = \frac{1}{N-1} \sum_{i=1}^N \frac{(x_i - m_x)(y_i - m_y)}{s_x s_y}$$

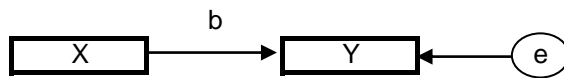
$$c_{xy} = s_x r_{xy} s_y$$

$r_{xy}^2$  koeficient determinance

$$Y = a + bX + e$$

$$H = a + bV + e$$

$$e = H - (a + bV) = H - H_{\text{stř}}$$



$$b = r_{xy} \frac{s_y}{s_x}$$

$$a = m_y - b m_x$$

163.4579  
0.388196

b 1.046324  
a -105.797

číslo	sex	výška	hmotnost	Vi - mV	Hi - mH	( ) x ( )	H <sub>stř</sub>	e		
1	1	180	95	6.3	19.05	120.02	88.58	6.423	H = a + b1V + b2S + e	
2	2	168	72	-5.7	-3.95	22.515	61.58	10.42		
3	1	172	80	-1.7	4.05	-6.885	84.34	-4.34	a	13.94188
4	2	170	59	-3.7	-16.95	62.715	62.63	-3.63	b1	0.529364
5	2	175	60	1.3	-15.95	-20.735	65.28	-5.28	b2	-20.6499
6	1	190	100	16.3	24.05	392.02	93.87	6.129		
7	2	<b>160</b>	<b>90</b>	-13.7	14.05	-192.49	57.34	32.66	SS	3803.803
8	1	<b>205</b>	<b>110</b>	31.3	34.05	1065.8	101.8	8.188		
9	1	178	63	4.3	-12.95	-55.685	87.52	-24.5	R	0.738644
10	2	165	59	-8.7	-16.95	147.47	59.99	-0.99	R2	0.545595
11	1	182	71	8.3	-4.95	-41.085	89.64	-18.6		
12	2	175	50	1.3	-25.95	-33.735	65.28	-15.3		V
13	1	165	78	-8.7	2.05	-17.835	80.64	-2.64	S	-0.61297
14	2	155	50	-18.7	-25.95	485.27	54.69	-4.69	H	0.623054
15	1	179	120	5.3	44.05	233.47	88.05	31.95		
16	1	171	80	-2.7	4.05	-10.935	83.81	-3.81		
17	1	193	90	19.3	14.05	271.17	95.46	-5.46		
18	2	167	57	-6.7	-18.95	126.97	61.05	-4.05		
19	1	170	90	-3.7	14.05	-51.985	83.28	6.716		
20	2	154	45	-19.7	-30.95	609.72	54.16	-9.16		
Průměr		173.7	75.95							
SD		12.50	20.99							
				r		0.6231		c		163.4579
				r		0.6231		r <sup>2</sup>		0.388196
				t		3.3795				
				df		18				
				p		0.0033				

SUMMARY OUTPUT

<i>Regression Statistics</i>	
Multiple R	0.738644
R Square	0.545595
Adjusted R	0.492135
Standard E	14.95838
Observatio	20

ANOVA

	<i>df</i>	<i>SS</i>	<i>MS</i>	<i>F</i>	<i>ignificance F</i>
Regressor	2	4567.147	2283.573	10.20577	0.001225
Residual	17	3803.803	223.7531		
Total	19	8370.95			

H  
-0.69538

	<i>Coefficient</i>	<i>standard Err</i>	<i>t Stat</i>	<i>P-value</i>	<i>Lower 95%</i>	<i>Upper 95%</i>	<i>ower 95,0%</i>
Intercept	13.92791	68.70115	0.202732	0.841751	-131.019	158.8747	-131.019
sex	-20.6491	8.509357	-2.42663	0.026649	-38.6022	-2.69588	-38.6022
výška	0.529437	0.347498	1.523567	0.146003	-0.20372	1.262595	-0.20372



Upper 95,0%  
158.8747  
-2.69588  
1.262595

číslo	sex	výška	hmotnost				I1	I2	I3	
1	1	180	95	rSV	-0.61297	I1	1.00	0.58	0.49	
2	2	168	72	rSH	-0.69538	I2	0.58	1.00	0.46	
3	1	172	80	rVH	0.623054	I3	0.49	0.46	1.00	
4	2	170	59			I4	0.43	0.36	0.36	
5	2	175	60	rVH•S	0.346612	I5	0.04	-0.03	0.11	
6	1	190	100			I6	0.14	0.12	0.05	
7	2	160	90			I7	0.54	0.57	0.47	
8	1	205	110			I8	0.38	0.55	0.38	
9	1	178	63			I9	0.40	0.44	0.35	
10	2	165	59			I10	0.50	0.47	0.29	
11	1	182	71							
12	2	175	50				I1	I2	I3	
13	1	165	78				-0.8	-0.8	-0.7	
14	2	155	50			I1	-0.773150	0.6	0.62	0.52
15	1	179	120			I2	-0.797466	0.62	0.64	0.53
16	1	171	80			I3	-0.669592	0.52	0.53	0.45
17	1	193	90			I4	-0.606616	0.47	0.48	0.41
18	2	167	57			I5	-0.067530	0.05	0.05	0.05
19	1	170	90			I6	-0.160391	0.12	0.13	0.11
20	2	154	45			I7	-0.719453	0.56	0.57	0.48
						I8	-0.716559	0.55	0.57	0.48
						I9	-0.643176	0.5	0.51	0.43
						I10	-0.706024	0.55	0.56	0.47

I4	I5	I6	I7	I8	I9	I10
0.43	0.04	0.14	0.54	0.38	0.40	0.50
0.36	-0.03	0.12	0.57	0.55	0.44	0.47
0.36	0.11	0.05	0.47	0.38	0.35	0.29
1.00	0.06	-0.04	0.27	0.35	0.42	0.37
0.06	1.00	0.03	0.01	0.13	-0.04	0.01
-0.04	0.03	1.00	0.14	0.10	0.07	0.09
0.27	0.01	0.14	1.00	0.44	0.29	0.43
0.35	0.13	0.10	0.44	1.00	0.41	0.51
0.42	-0.04	0.07	0.29	0.41	1.00	0.41
0.37	0.01	0.09	0.43	0.51	0.41	1.00

I4	I5	I6	I7	I8	I9	I10
-0.6	-0.1	-0.2	-0.7	-0.7	-0.6	-0.7
0.47	0.05	0.12	0.6	0.55	0.5	0.5
0.48	0.05	0.13	0.6	0.57	0.51	0.6
0.41	0.05	0.11	0.5	0.48	0.43	0.5
0.37	0.04	0.1	0.4	0.43	0.39	0.4
0.04	0	0.01	0	0.05	0.04	0
0.1	0.01	0.03	0.1	0.11	0.1	0.1
0.44	0.05	0.12	0.5	0.52	0.46	0.5
0.43	0.05	0.11	0.5	0.51	0.46	0.5
0.39	0.04	0.1	0.5	0.46	0.41	0.5
0.43	0.05	0.11	0.5	0.51	0.45	0.5

číslo	sex	výška	hmotnost
1	1	175	77
2	2	170	58
3	1	172	93
4	2	152	48
5	1	180	83
6	1	177	80
7	2	158	50
8	2	165	55
9	1	186	90
10	2	164	45
11	2	158	60
12	1	192	94
13	1	168	65
14	2	175	60
15	1	198	96
16	1	168	62
17	2	174	62
18	1	186	106
19	2	167	51
20	1	182	71

rSV ° H -0.01327  
rSH ° V -0.59732  
rVH ° S 0.661453

Korelace

	sex	výška	hmotnost
sex			
výška	-0.67894		
hmotnost	-0.80823	0.834716	

<b>R</b>	House	Child	Shop		f		
House		1	0.863113	0.549620	House	0.930529	-0.911243
Child	0.863113		1	0.535640	Child	0.925595	-0.930573
Shop	0.549620	0.535640		1	Shop	0.767708	-0.813854

					0.930529	0.925595	0.767708
<b>R se stř.</b>	House	Child	Shop		0.930529	0.865884	
House	0.865884	0.861292	0.714375		0.925595	0.861292	
Child	0.861292	0.856726	0.710587		0.767708	0.714375	
Shop	0.714375	0.710587	0.589376				

<b>R rez.</b>	House	Child	Shop
House	0.134116	0.001821	-0.16476
Child	0.001821	0.143274	-0.17495
Shop	-0.16476	-0.17495	0.410624

SS 0.322635

R	WORK	TRANSP	HOUSEHC	CHILDREN	SHOPPING	PERSONA	MEAL	SLEEP
<b>WORK</b>	1.000000	0.933080	-0.910894	-0.834194	-0.659432	-0.032368	-0.456959	-0.630458
<b>TRANSP</b>	0.933080	1.000000	-0.866047	-0.766630	-0.488073	-0.044059	-0.596350	-0.772311
<b>HOUSEHC</b>	-0.910894	-0.866047	1.000000	0.863113	0.549620	-0.076672	0.300474	0.452223
<b>CHILDREN</b>	-0.834194	-0.766630	0.863113	1.000000	0.535640	-0.044549	0.315813	0.307995
<b>SHOPPING</b>	-0.659432	-0.488073	0.549620	0.535640	1.000000	0.496551	-0.199914	0.080194
<b>PERSONA</b>	-0.032368	-0.044059	-0.076672	-0.044549	0.496551	1.000000	-0.247624	-0.089321
<b>MEAL</b>	-0.456959	-0.596350	0.300474	0.315813	-0.199914	-0.247624	1.000000	0.810766
<b>SLEEP</b>	-0.630458	-0.772311	0.452223	0.307995	0.080194	-0.089321	0.810766	1.000000
<b>TV</b>	0.128058	0.166808	-0.403996	-0.110707	0.051567	0.115720	0.265190	-0.008385
<b>LEISURE</b>	-0.452111	-0.380433	0.160198	0.076637	0.248532	0.055605	0.336731	0.525314

R se stř.	WORK	TRANSP	HOUSEHC	CHILDREN	SHOPPING	PERSONA	MEAL	SLEEP
<b>WORK</b>	0.980151	0.953855	-0.908154	-0.833497	-0.631019	-0.078912	-0.468992	-0.655144
<b>TRANSP</b>	0.953855	0.952972	-0.862157	-0.786656	-0.516358	0.009129	-0.583808	-0.736314
<b>HOUSEHC</b>	-0.908154	-0.862157	0.860385	0.793706	0.670238	0.148347	0.322998	0.520563
<b>CHILDREN</b>	-0.833497	-0.786656	0.793706	0.733042	0.633439	0.152240	0.272591	0.459280
<b>SHOPPING</b>	-0.631019	-0.516358	0.670238	0.633439	0.792843	0.390689	-0.202006	0.031176
<b>PERSONA</b>	-0.078912	0.009129	0.148347	0.152240	0.390689	0.305175	-0.405299	-0.290667
<b>MEAL</b>	-0.468992	-0.583808	0.322998	0.272591	-0.202006	-0.405299	0.881320	0.822651
<b>SLEEP</b>	-0.655144	-0.736314	0.520563	0.459280	0.031176	-0.290667	0.822651	0.832563
<b>TV</b>	0.176054	0.134405	-0.195453	-0.186299	-0.259409	-0.142593	0.106163	0.029905
<b>LEISURE</b>	-0.419454	-0.457413	0.345555	0.307934	0.075379	-0.137376	0.454459	0.477052

R rez.	WORK	TRANSP	HOUSEHC	CHILDREN	SHOPPING	PERSONA	MEAL	SLEEP
<b>WORK</b>	0.019849	-0.020775	-0.002740	-0.000697	-0.028412	0.046544	0.012032	0.024686
<b>TRANSP</b>	-0.020775	0.047028	-0.003890	0.020026	0.028285	-0.053189	-0.012542	-0.035997
<b>HOUSEHC</b>	-0.002740	-0.003890	0.139615	0.069407	-0.120618	-0.225019	-0.022524	-0.068340
<b>CHILDREN</b>	-0.000697	0.020026	0.069407	0.266958	-0.097799	-0.196788	0.043221	-0.151286
<b>SHOPPING</b>	-0.028412	0.028285	-0.120618	-0.097799	0.207157	0.105862	0.002092	0.049018
<b>PERSONA</b>	0.046544	-0.053189	-0.225019	-0.196788	0.105862	0.694825	0.157675	0.201346
<b>MEAL</b>	0.012032	-0.012542	-0.022524	0.043221	0.002092	0.157675	0.118680	-0.011885
<b>SLEEP</b>	0.024686	-0.035997	-0.068340	-0.151286	0.049018	0.201346	-0.011885	0.167437
<b>TV</b>	-0.047996	0.032403	-0.208543	0.075592	0.310977	0.258312	0.159026	-0.038290
<b>LEISURE</b>	-0.032657	0.076980	-0.185357	-0.231297	0.173153	0.192980	-0.117727	0.048262

TV	LEISURE	F1	F2
0.128058	-0.452111	<b>0.537699</b>	<b>-0.831283</b>
0.166808	-0.380433	<b>0.655254</b>	<b>-0.723611</b>
-0.403996	0.160198	-0.382645	<b>0.844966</b>
-0.110707	0.076637	-0.326477	<b>0.791489</b>
0.051567	0.248532	0.175901	<b>0.872870</b>
0.115720	0.055605	0.415705	0.363819
0.265190	0.336731	<b>-0.937827</b>	-0.042436
-0.008385	0.525314	<b>-0.886892</b>	0.214444
1.000000	0.008160	-0.100672	-0.276904
0.008160	1.000000	<b>-0.492990</b>	0.185705

TV	LEISURE
0.176054	-0.419454
0.134405	-0.457413
-0.195453	0.345555
-0.186299	0.307934
-0.259409	0.075379
-0.142593	-0.137376
0.106163	0.454459
0.029905	0.477052
0.086811	-0.001792
-0.001792	0.277526

TV	LEISURE	SS	
-0.047996	-0.032657		3.333365
0.032403	0.076980		
-0.208543	-0.185357		
0.075592	-0.231297		
0.310977	0.173153		
0.258312	0.192980		
0.159026	-0.117727		
-0.038290	0.048262		
0.913189	0.009953		
0.009953	0.722474		