

Table I. The results of a survey of students (January, 2018).

	Demographic data		Socio-economic data
1	Gils's School El-Diwaneyah (88) 830; Male schools: Jawahiriya (35) 450, Zeytun (37) 660 *	8	Father's profession: worker (56), teacher (21), law enforcement agencies (21), technician (14), physician (10), other (38)
2	Scientific (128) 1377, humanitarian (32) 563 *	9	Father's income: not working (21), low (41), medium (24), high (74)
		10	Mother income: housewife (83), teacher (27), medic (26), technician (14), other (10)
3	age: 14-15 (37), 16-17 (95), 18 and older (28)	11	Father's education: none (1), primary (57), secondary (84), higher (18)
4	The family consists of 2-4 (17), 5-8 (80), > 9 people (63)	12	Mother's education: none (22), primary (56), secondary (75), higher (7)
5	I am in the family: 1-3rd (84), 4-6th (61) and later child (15)	13	Brother / sister education.: none (15), primary (56), secondary (81), higher (8)
6	Parents married (133), divorced (17), widowed (10)	14	Home Internet: yes (134), no (26); PC: yes (106), no (54)
7	I live with my parents (148); with relatives and separately (12)	15	Q/Computer science related to math? Yes (48), Rather, Yes (83), Rather No (26), No (3)

* Second number the total number of students

Table II. Exam results and testing students

Contingent	Test	Computer science,			Mathematics, points		
		points					
		<50	50 – 65	>65	<50	50 – 65	>65
Gir's School	Exam, %	38	28	34	22	25	53
	Test, %	58	18	24	63	23	15
Boy's school	Exam, %	25	31	44	28	26	46
	Test, %	61	24	15	61	29	10
All Schools	Exam, %	32	29	39	24	26	50
	Test, %	59	21	20	62	25	13

Table. III The prediction's quality of classifiers of algorithms, predictors and predictants

№	Sample training/forecast, subject, output graduation	The number of predictors in the experience	J48		MLP		NB		SVM		1NN		Σ
			A	F	A	F	A	F	A	F	A	F	
1	70/30, Computer, 12\36	20, All dataset	81	67	77	52	90	80	83	60	77	52	5
2	70/30, Mathematics, 24\24	20, All dataset	71	67	75	73	67	64	69	65	56	51	5
3	70/30, Computer, 12\36	11, with out CED	73	0	73	44	77	56	75	?	71	46	1
4	70/30, Mathematics 24\24	11, with out CED	69	65	60	51	69	67	65	58	60	51	5
5	70/30, Computer, 12\36	13, with out DD	79	58	81	69	88	83	85	67	69	40	4
6	70/30, Mathematics, 24\24	13, with out PP	65	56	73	70	67	64	65	58	50	33	4
7	70/30, Computer, 12\36	16 with out PP	79	64	73	43	75	33	73	23	75	50	1
8	70/30, Mathematics, 24\24	16, with out PP	50	43	65	56	46	23	50	8	56	43	1
9	50/50, Computer, 21\59	$\Sigma(20,11,13,16)$	3		0		3		0		0		6
10	50/50, Mathematics, 33\47	$\Sigma(20,11,13,16)$	2		3		3		3		0		11
11	70/30, Computer,12\16\20	$\Sigma(20,11,13,16)$	1		1		0		0		1		3
12	70/30, Mathematics, 24\11\13	$\Sigma(20,11,13,16)$	1		1		0		0		0		2
13	50/50, Computer, 21\29\30	$\Sigma(20,11,13,16)$	0		0		0		0		0		0
14	50/50, Mathematics, 33\22\25	$\Sigma(20,11,13,16)$	0		0		0		0		0		0
15	Useful predictions, Σ	Lines 1-14	13		11		12		8		4		48