

Scottish Qualifications Authority

Higher Grade Chemistry - 1998 Examination

Statistical Data on Performance in Paper I (Multiple Choice Questions Only)

Item No	Syllabus Section	Ability	FV	r	Percentage Choosing Option				
					A	B	C	D	O
1	SG	Ku	0.70	0.41	8	70*	6	16	0
2	SG	Ku	0.64	0.54	15	16	5	64*	1
3	SG	Ku	0.38	0.40	37	38*	12	13	0
4	SG	Ku	0.52	0.59	8	25	52*	15	0
5	SG	Ps	0.53	0.20	10	10	53*	27	0
6	SG	Ku	0.44	0.42	44*	45	8	3	0
7	Unit 1	Ku	0.64	0.47	16	64*	5	14	0
8	Unit 1	Ps	0.69	0.32	18	6	7	69*	0
9	Unit 1	Ku	0.63	0.58	63*	11	11	14	1
10	Unit 2	Ku	0.75	0.46	10	11	75*	4	0
11	Unit 2	Ku	0.73	0.46	12	5	11	73*	0
12	Unit 2	Ku	0.71	0.65	10	6	13	71*	0
13	Unit 2	Ps	0.63	0.59	63*	8	18	11	0
14	Unit 2	Ku	0.70	0.65	70*	14	6	9	1
15	Unit 3	Ku	0.71	0.62	9	13	7	71*	0
16	Unit 3	Ps	0.54	0.44	19	13	12	54*	2
17	Unit 3	Ps	0.72	0.71	6	72*	7	14	1
18	Unit 3	Ps	0.57	0.56	7	8	57*	28	0
19	Unit 3	Ps	0.58	0.56	58*	17	18	7	0
20	Unit 4	Ku	0.71	0.63	6	8	14	71*	0
21	Unit 4	Ku	0.65	0.54	23	10	3	65*	0
22	Unit 4	Ku	0.80	0.60	10	80*	6	4	0
23	Unit 5	Ku	0.55	0.56	3	32	55*	10	0
24	Unit 5	Ku	0.60	0.57	17	15	60*	8	0
25	Unit 5	Ps	0.76	0.51	10	7	7	76*	0
26	Unit 5	Ku	0.62	0.46	17	62*	15	6	0
27	Unit 5	Ku	0.60	0.50	16	15	9	60*	0
28	Unit 5	Ps	0.74	0.40	14	74*	8	5	0
29	Unit 5	Ku	0.63	0.55	21	8	63*	8	0
30	Unit 6	Ps	0.56	0.40	56*	23	11	10	0
31	Unit 6	Ku	0.50	0.34	50*	9	30	11	0
32	Unit 6	Ku	0.68	0.47	68*	11	7	13	0
33	Unit 6	Ku	0.59	0.69	59*	14	13	12	1
34	Unit 6	Ku	0.78	0.53	13	4	78*	5	0
35	Unit 7	Ps	0.77	0.54	1	2	19	77*	0
36	Unit 7	Ku	0.78	0.53	78*	9	3	9	1
37	Unit 7	Ps	0.78	0.50	6	7	78*	9	0
38	Unit 8	Ku	0.64	0.51	5	9	64*	22	0
39	Unit 8	Ku	0.56	0.64	56*	18	14	12	0
40	Unit 8	Ps	0.58	0.63	12	17	13	58*	1

Scottish Qualifications Authority

Higher Grade Chemistry - 1997 Examination

Statistical Data on Performance in Paper I (Multiple Choice Questions Only)

Item No	Syllabus Section	Ability	FV	r	Percentage Choosing Option				
					A	B	C	D	O
1	SG7.3	Ps	0.73	0.64	73*	5	14	8	0
2	SG9.17	Ku	0.57	0.50	9	12	22	57*	0
3	SG9.19	Ku	0.37	0.63	44	9	10	37*	0
4	SG11.16	Ps	0.43	0.49	8	27	23	43*	0
5	SG8.14	Ps	0.45	0.62	45*	23	16	16	0
6	1.16	Ps	0.77	0.36	6	6	77*	11	0
7	1.19	Ku	0.46	0.59	7	13	46*	33	0
8	1	Ps	0.81	0.46	8	7	81*	4	0
9	1	Ps	0.81	0.56	9	81*	7	2	0
10	2.21	Ku	0.63	0.58	63*	15	12	11	0
11	2.19	Ku	0.29	0.45	8	29*	44	18	0
12	2.40	Ku	0.65	0.59	6	65*	5	23	1
13	2.33	Ps	0.78	0.28	5	5	78*	11	0
14	2.38	Ku	0.58	0.40	7	14	21	58*	0
15	3.8	Ps	0.48	0.39	9	48*	10	33	0
16	3.10	Ku	0.63	0.53	63*	13	18	6	0
17	3.6	Ku	0.80	0.64	80*	7	7	6	0
18	3.5	Ku	0.54	0.59	9	54*	15	22	0
19	3.14	Ps	0.31	0.45	48	15	31*	5	1
20	4.17	Ps	0.77	0.57	3	14	77*	6	0
21	4.34	Ku	0.78	0.35	5	78*	3	14	0
22	4.20	Ku	0.68	0.51	14	2	16	68*	0
23	5.7	Ku	0.79	0.68	8	7	79*	6	0
24	5.30	Ku	0.71	0.58	17	71*	8	5	0
25	5.33	Ku	0.48	0.52	17	13	21	48*	0
26	5.37	Ku	0.48	0.41	23	12	48*	17	0
27	5.23	Ku	0.58	0.46	6	23	58*	12	1
28	5.36	Ku	0.45	0.39	9	45*	20	25	0
29	6.14	Ku	0.42	0.63	42*	23	20	16	0
30	6.8	Ku	0.58	0.44	58*	9	23	10	0
31	6.12	Ps	0.60	0.44	10	4	26	60*	0
32	6.8	Ku	0.57	0.38	15	57*	26	3	0
33	6.11	Ps	0.56	0.62	56*	11	19	13	1
34	7.5	Ps	0.56	0.63	9	56*	17	18	0
35	7.10	Ps	0.47	0.64	11	9	34	47*	0
36	7	Ku	0.75	0.52	75*	12	3	10	0
37	7.17	Ku	0.33	0.48	16	43	33*	8	0
38	8.4	Ku	0.61	0.43	10	61*	8	21	0
39	8.5	Ku	0.87	0.64	5	4	4	87*	0
40	8.7	Ku	0.71	0.62	13	71*	9	8	0



Scottish Examination Board

Higher Grade Chemistry - 1996 Examination

Statistical Data on Performance in Paper I (Multiple Choice Questions Only)

Item No	Syllabus Section	Ability	FV	r	Percentage Choosing Option				
					A	B	C	D	O
1	SG	Ku	0.76	0.46	76*	9	3	12	0
2	SG	Ku	0.56	0.55	14	56*	13	16	0
3	SG	Ku	0.64	0.52	17	64*	8	9	1
4	SG	Ps	0.62	0.44	23	6	62*	9	0
5	SG	Ps	0.48	0.53	48*	11	10	31	0
6	Unit 1	Ku	0.65	0.54	3	14	17	65*	0
7	Unit 1	Ku	0.60	0.59	8	12	20	60*	0
8	Unit 2	Ku	0.66	0.43	10	16	66*	8	0
9	Unit 2	Ku	0.63	0.70	63*	19	12	6	0
10	Unit 2	Ku	0.65	0.65	12	10	65*	12	1
11	Unit 2	Ps	0.68	0.47	68*	8	13	11	0
12	Unit 3	Ku	0.54	0.73	13	26	7	54*	1
13	Unit 3	Ku	0.40	0.57	8	31	40*	21	1
14	Unit 3	Ku	0.60	0.76	7	60*	6	26	0
15	Unit 3	Ku	0.58	0.70	26	9	58*	7	0
16	Unit 3	Ku	0.54	0.70	24	13	9	54*	0
17	Unit 4	Ku	0.89	0.75	89*	7	2	2	0
18	Unit 4	Ku	0.60	0.66	60*	20	11	9	0
19	Unit 4	Ku	0.67	0.58	16	8	67*	9	0
20	Unit 4	Ku	0.79	0.72	8	5	7	79*	0
21	Unit 4	Ku	0.74	0.50	74*	5	7	14	0
22	Unit 4	Ps	0.80	0.69	4	5	80*	12	0
23	Unit 5	Ku	0.63	0.41	15	9	63*	13	0
24	Unit 5	Ku	0.40	0.62	44	40*	7	10	0
25	Unit 5	Ku	0.76	0.63	6	9	76*	10	0
26	Unit 5	Ku	0.49	0.48	12	49*	5	33	0
27	Unit 5	Ku	0.69	0.71	69*	16	9	7	0
28	Unit 5	Ku	0.71	0.57	12	71*	9	7	0
29	Unit 6	Ku	0.72	0.58	72*	6	9	12	0
30	Unit 6	Ku	0.63	0.67	9	16	63*	11	1
31	Unit 6	Ps	0.67	0.52	10	67*	20	4	0
32	Unit 6	Ps	0.52	0.68	52*	11	26	11	0
33	Unit 6	Ku	0.54	0.39	11	54*	21	15	0
34	Unit 6	Ps	0.70	0.46	7	70*	9	14	0
35	Unit 7	Ku	0.56	0.32	17	10	17	56*	0
36	Unit 7	Ku	0.77	0.65	77*	6	9	9	0
37	Unit 7	Ps	0.54	0.61	54*	20	11	15	0
38	Unit 7	Ku	0.36	0.50	15	36*	41	8	0
39	Unit 8	Ps	0.66	0.68	6	20	8	66*	0
40	Unit 8	Ku	0.81	0.72	4	5	10	81*	0

Scottish Examination Board

Higher Grade Chemistry (Revised) - 1995 Examination

Statistical Data on Performance in Paper I (Multiple Choice Questions Only)

Item No	Syllabus Section	Ability	FV	r	Percentage Choosing Option				
					A	B	C	D	O
1	SG	KU	0.43	0.33	19	13	43*	25	0
2	SG	PS	0.53	0.56	53*	15	13	18	0
3	SG	KU	0.80	0.59	10	5	80*	5	0
4	SG	PS	0.61	0.24	7	61*	16	16	0
5	SG	KU	0.58	0.34	10	58*	25	7	0
6	Various	PS	0.67	0.48	67*	8	18	8	0
7		SG	PS	0.63	0.43	8	63*	15	15
8	1	KU	0.41	0.43	32	41*	12	15	0
9	1	PS	0.57	0.40	4	11	29	57*	0
10	1	KU	0.65	0.62	65*	2	21	12	0
11	1	KU	0.82	0.52	11	82*	3	4	0
12	2	KU	0.66	0.70	7	66*	23	4	0
13	2	KU	0.52	0.50	13	52*	11	23	0
14	2	KU	0.44	0.61	17	23	17	44*	0
15	2	KU	0.73	0.45	24	1	3	73*	0
16	3	PS	0.38	0.57	36	21	38*	6	0
17	3	PS	0.46	0.53	30	15	46*	9	0
18	3	PS	0.63	0.56	63*	21	7	8	0
19	3	PS	0.89	0.51	2	89*	5	3	0
20	3	KU	0.55	0.68	6	10	29	55*	0
21	4	KU	0.78	0.64	6	14	78*	2	0
22	4	KU	0.79	0.55	9	8	5	79*	0
23	4	KU	0.78	0.65	8	6	78*	8	0
24	4	KU	0.73	0.55	73*	13	4	10	0
25	5	KU	0.75	0.65	8	14	75*	4	0
26	5	PS	0.57	0.51	6	19	18	57*	0
27	5	KU	0.35	0.47	35*	17	13	35	0
28	5	KU	0.52	0.52	14	29	4	52*	0
29	5	PS	0.56	0.55	56*	22	13	9	0
30	5	KU	0.51	0.59	16	15	17	51*	0
31	6	PS	0.59	0.55	18	59*	14	9	0
32	6	KU	0.51	0.57	6	24	51*	19	0
33	6	KU	0.51	0.52	11	51*	20	18	0
34	7	KU	0.85	0.35	85*	7	5	3	0
35	7	PS	0.54	0.65	18	19	54*	9	0
36	7	KU	0.66	0.48	15	12	7	66*	0
37	8	KU	0.50	0.54	38	50*	6	7	0
38	8	KU	0.69	0.65	10	11	69*	10	0
39	8	KU	0.83	0.67	7	7	83*	3	0
40	8	KU	0.38	0.60	2	48	12	38*	0

SCOTTISH EXAMINATION BOARD

HIGHER GRADE CHEMISTRY (REVISED) - 1994 EXAMINATION

STATISTICAL DATA ON PERFORMANCE IN PAPER I (MULTIPLE CHOICE QUESTIONS ONLY)

ITEM NO	SYLLABUS SECTION	ABILITY	FV	r	PERCENTAGE			CHOOSING OPTION	
					A	B	C	D	O
1	SG	KU	0.51	0.40	19	21	51*	9	0
2	SG	PS	0.67	0.47	5	22	7	67*	0
3	SG	PS	0.73	0.48	8	12	73*	7	0
4	SG	PS	0.51	0.63	12	12	25	51*	0
5	SG	PS	0.66	0.42	8	66*	4	21	0
6	1	PS	0.85	0.41	13	2	85*	0	0
7	1	KU	0.66	0.56	16	5	66*	12	0
8	SG	PS	0.62	0.70	62*	6	8	24	0
9	2.8	KU	0.56	0.58	56*	14	16	13	0
10	SG	KU	0.79	0.57	8	5	79*	8	0
11	2.24	KU	0.81	0.62	81*	7	5	7	0
12	2	PS	0.51	0.52	16	25	51*	8	1
13	2.31	KU	0.61	0.38	8	18	13	61*	1
14	2.23	KU	0.58	0.69	58*	10	6	26	0
15	2	KU	0.53	0.40	8	23	53*	16	0
16	3.9	KU	0.63	0.56	9	20	63*	7	1
17	3.8	KU	0.68	0.55	68*	3	11	17	1
18	3.6	KU	0.50	0.67	41	6	50*	3	0
19	3.5	KU	0.59	0.44	8	59*	8	25	1
20	4	PS	0.66	0.47	10	12	12	66*	0
21	4.33	PS	0.68	0.67	14	68*	16	3	0
22	4.15	KU	0.70	0.64	70*	12	3	14	0
23	4.34	KU	0.76	0.51	76*	6	9	9	0
24	5.8	KU	0.67	0.55	3	21	9	67*	0
25	5.20	KU	0.60	0.34	60*	7	21	12	1
26	6.12	KU	0.60	0.54	13	60*	14	12	1
27	5	PS	0.69	0.40	25	69*	2	4	0
28	6.7	KU	0.47	0.61	12	21	20	47*	0
29	6.5	KU	0.76	0.81	76*	13	6	6	0
30	6.14	PS	0.40	0.55	40*	36	6	17	0
31	1	PS	0.77	0.50	10	77*	9	4	0
32	7.14	KU	0.83	0.45	4	4	9	83*	0
33	7	PS	0.72	0.35	12	72*	6	10	0
34	7	PS	0.66	0.52	15	6	13	66*	0
35	7	KU	0.77	0.67	4	2	77*	16	0
36	8	KU	0.58	0.55	58*	23	10	9	0
37	8	KU	0.56	0.64	56*	14	17	12	0
38	8.10	KU	0.70	0.60	15	70*	7	8	0
39	8.1	KU	0.71	0.64	19	71*	2	8	1
40	8	PS	0.59	0.69	11	13	16	59*	1

SCOTTISH EXAMINATION BOARD

CHEMISTRY - HIGHER GRADE - 1993 EXAMINATION

STATISTICAL DATA ON PERFORMANCE IN PAPER I

ITEM NO	SYLLABUS SECTION	ABILITY	FV	r	PERCENTAGE CHOOSING OPTION				
					A	B	C	D	O
1	3.2	Ap	0.84	0.50	4	8	84*	5	0
2	3.2	Ap	0.75	0.55	5	14	5	75*	0
3	6.3	Ap	0.55	0.55	18	10	55*	17	0
4	7	Co	0.75	0.65	75*	9	7	9	0
5	8.2	Ap	0.76	0.70	76*	12	7	5	0
6	8.3	Ap	0.59	0.50	16	59*	8	18	0
7	9.6	Kn	0.70	0.48	70*	6	18	6	0
8	10	Kn	0.75	0.44	7	75*	14	4	0
9	12.2	Co	0.68	0.39	8	68*	17	6	1
10	12.2	Co	0.59	0.56	6	21	13	59*	0
11	12.4	An/Ev	0.51	0.54	22	6	21	51*	0
12	12.6	Kn	0.82	0.37	5	8	5	82*	0
13	13.3	Co	0.71	0.49	19	6	71*	4	0
14	13.4	An/Ev	0.59	0.45	23	59*	12	5	1
15	13.8	Co	0.67	0.57	20	8	5	67*	0
16	14.2	Kn	0.42	0.49	23	10	25	42*	0
17	14.3	Kn	0.61	0.53	14	9	15	61*	0
18	14.6	Co	0.77	0.48	8	77*	8	7	0
19	14.6	Co	0.72	0.54	72*	14	7	6	0
20	15.2	Ap	0.77	0.43	9	77*	6	7	0
21	15.5	Kn	0.62	0.59	5	18	14	62*	0
22	16.1	Kn	0.79	0.59	3	10	8	79*	0
23	16.3	Co	0.66	0.50	13	66*	17	4	0
24	17.2	Kn	0.77	0.69	5	10	77*	9	0
25	17.3	Kn	0.50	0.55	12	50*	22	16	0
26	18.1	Ap	0.67	0.43	14	4	14	67*	0
27	18.3	Co	0.87	0.54	87*	3	8	2	0
28	18.3	An/Ev	0.72	0.57	7	72*	12	9	0
29	18.4	Co	0.68	0.67	19	68*	4	9	0
30	18.5	Co	0.62	0.61	19	4	14	62*	0
31	18.5	Kn	0.58	0.37	33	3	6	58*	0
32	18.6	An/Ev	0.64	0.82	9	64*	19	7	1
33	19	Ap	0.83	0.56	83*	2	15	0	0
34	19	Ap	0.65	0.49	65*	12	9	15	0
35	19.2	Kn	0.66	0.53	10	8	15	66*	0
36	19.4	Ap	0.47	0.60	11	29	47*	13	0
37	19.3	Co	0.64	0.62	16	12	7	64*	0
38	19.3	Ap	0.77	0.54	5	11	8	77*	0
39	19.6	Co	0.50	0.67	10	50*	18	21	0
40	20.1	Ap	0.56	0.37	19	12	56*	13	0
41	20.3	Co	0.39	0.25	8	44	39*	8	1
42	20.3	An/Ev	0.70	0.62	19	7	3	70*	0
43	20.8	Ap	0.52	0.49	6	52*	38	4	0
44	21.2	Co	0.60	0.61	10	60*	14	14	1
45	21.3	An/Ev	0.54	0.58	54*	10	21	14	0
46	21.4	Kn	0.60	0.49	20	10	10	60*	0
47	21.4	Kn	0.67	0.29	16	11	5	67*	0
48	21.4	Co	0.60	0.54	9	60*	14	17	0
49	21.5	Co	0.57	0.52	15	57*	18	10	0
50	21.6	Kn	0.69	0.71	9	9	13	69*	0

SCOTTISH EXAMINATION BOARD

CHEMISTRY (REVISED) - HIGHER GRADE - 1991 EXAMINATION

STATISTICAL DATA ON PERFORMANCE IN PAPER I (MULTIPLE CHOICE QUESTIONS ONLY)

ITEM NO	SYLLABUS SECTION	ABILITY	FV	r	PERCENTAGE CHOOSING OPTION				
					A	B	C	D	O
1	SG	Ku	0.40	0.66	7	22	40*	31	0
2	SG/5	Ku	0.51	0.44	7	26	51*	15	1
3	SG	Ku	0.77	0.46	9	77*	9	5	0
4	SG	Ps	0.70	0.30	70*	6	18	6	0
5	SG	Ps	0.57	0.45	14	57*	20	10	0
6	7	Ps	0.60	0.56	5	23	11	60*	0
7	SG	Ps	0.76	0.34	76*	9	9	6	0
8	Misc	Ps	0.38	0.56	38	4	38*	20	0
9	8	Ku	0.62	0.63	23	10	62*	5	0
10	8	Ku	0.65	0.63	16	65*	15	5	0
11	Misc	Ps	0.49	0.53	15	10	25	49*	0
12	5	Ku	0.59	0.54	6	18	59*	17	0
13	5	Ku	0.82	0.50	6	6	82*	6	0
14	1	Ps	0.50	0.43	23	10	50*	16	0
15	7	Ku	0.50	0.40	8	50*	11	30	0
16	3	Ps	0.48	0.56	22	22	48*	8	0
17	3	Ps	0.41	0.37	20	41*	16	23	0
18	5	Ku	0.34	0.28	9	28	28	34*	0
19	5	Ps	0.42	0.41	30	14	14	42*	0
20	5	Ps	0.71	0.52	9	12	9	71*	0
21	3	Ps	0.64	0.55	7	25	64*	4	0
22	3	Ku	0.59	0.58	59*	11	18	12	0
23	1	Ku	0.69	0.35	12	5	69*	13	0
24	7	Ku	0.36	0.44	49	36*	3	12	0
25	7	Ku	0.58	0.41	12	12	58*	18	0
26	6	Ku	0.67	0.52	13	17	67*	4	0
27	6	Ku	0.53	0.57	53*	18	16	13	0
28	4	Ku	0.58	0.45	2	28	58*	12	0
29	4	Ps	0.68	0.54	8	12	12	68*	0
30	4	Ku	0.71	0.51	71*	10	13	7	0
31	2	Ku	0.50	0.34	13	29	50*	7	0
32	SG	Ps	0.57	0.49	8	27	8	57*	1
33	SG	Ps	0.64	0.50	19	9	64*	8	0
34	2	Ku	0.52	0.57	18	8	52*	22	0
35	4	Ku	0.46	0.48	5	46*	25	23	0
36	2	Ku	0.63	0.47	63*	14	14	10	0
37	4	Ku	0.73	0.48	73*	9	9	10	0
38	4	Ku	0.71	0.56	4	11	14	71*	0
39	4	Ku	0.76	0.61	76*	13	6	5	0
40	2	Ps	0.58	0.62	3	58*	14	25	0

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