

The tables and charts shown are based on linking data from Key Stage 4 (2014/15 and 2015/16) to Key Stage 1 (2005/06 and 2006/07). Charts show the grade distribution and % attaining grade C or higher in GCSE Mathematics for each KS1 score. The first chart shows data for pupils who have English as their First Language (Noet EAL) and the second for pupils who have English as an Additional Language (EAL). Data is then shown for a range of aggregations (show in the grouping header) from all pupils (the first table) to data grouped by EAL, Gender, Term of Birth and FSM Group (the last table). Groupings are based on data derived from school census linked to Key Stage 1 so the pupil characteristics used represent those at age 7.

Birth Term is Autumn (September to December), Spring (January to April) or Summer (May to August). FSM groups are based on looking at each pupils' FSM status over 3 years (Reception, Y1, Y2) and this is used to generate 3 groupings : 0\_Never (Never FSM), 1\_Low (FSM on fewer than 70% of occasions), 2\_High (FSM on 70% or more occasions). For the KS1 years used in this dataset school census collections were annually rather than termly so, in reality, FSM group 1 will be pupils FSM on one or two occasions out of 3 and group 2 will be pupils FSM on all 3 census collections.

The KS1 score (KS1RM) is calculated by assigning values of 0,1,2,3,4,5 to each national curriculum level (W, 1, 2C, 2B, 2A, 3) for reading and mathematics and then adding these to give an overall score from 0 to 10. The very small number of pupils with level 4 are assigned a score of 5.

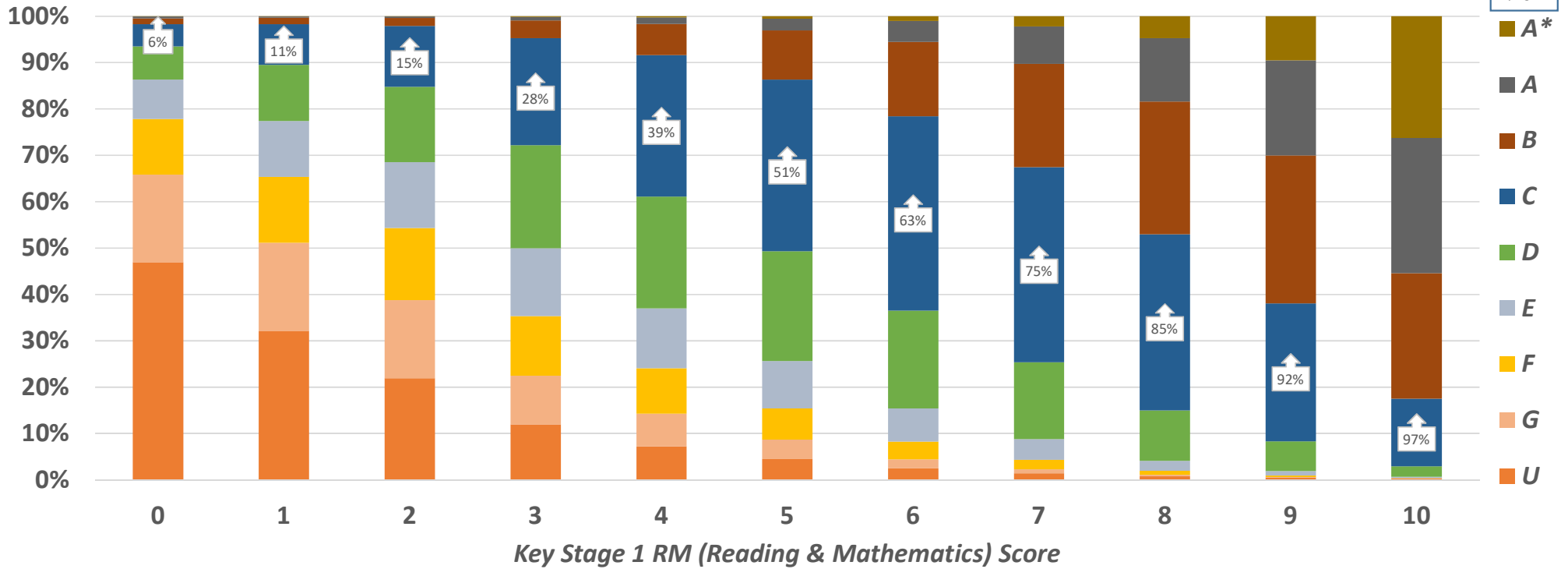
The tables show, for each grouping and each KS1RM score, the % of pupils who attained grade C or higher in Mathematics at Key Stage 4. The number of pupils in each group is also shown. Where fewer than 50% of pupils attain C+ the cell is highlighted.

Finally, a calculation is performed to show the percentage of pupils in what we call 'high risk' category. By 'high risk' we simply mean cases where fewer than 50% of pupils attain C+ i.e. the highlighted cells. The calculation shows the % of the cohort in the highlighted cells. In the first table (All Pupils) there are a total of 204,135 pupils with KS1RM scores of 0,1,2,3 or 4. There are 977,123 pupils in the overall dataset so the proportion in the 'high risk' category is 21% (172,852 divided by 977,123).

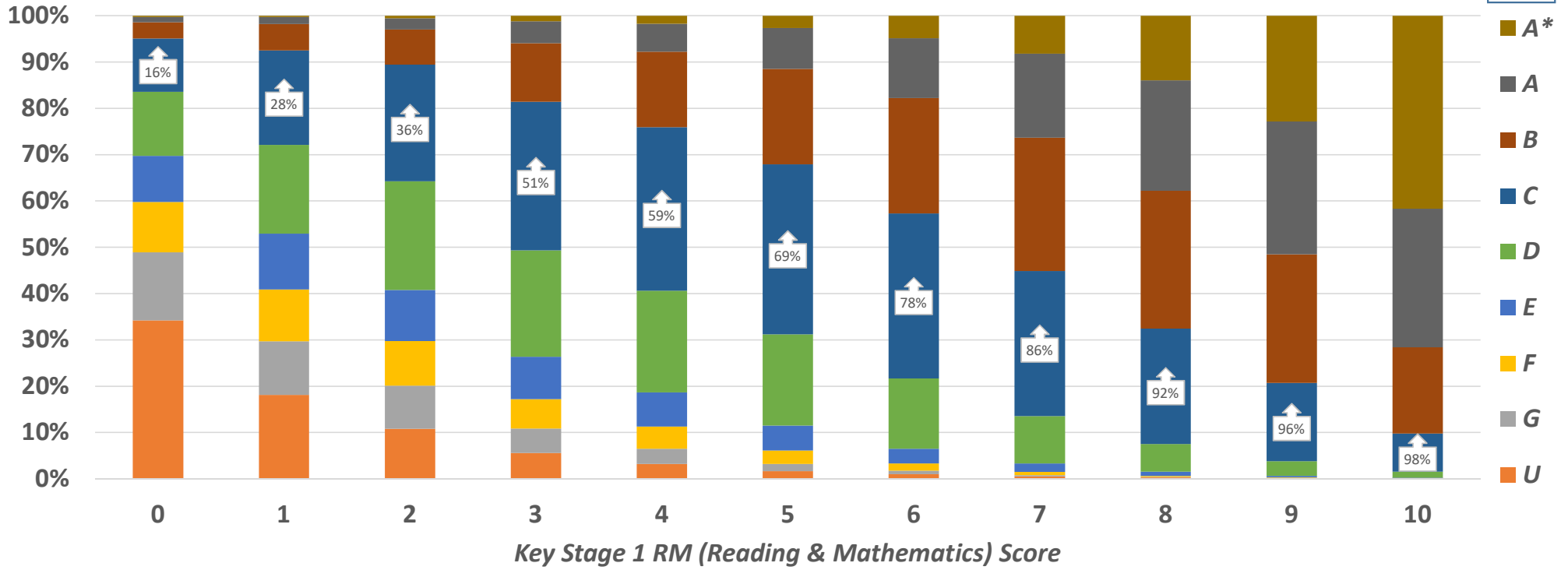
Please note that 'high risk' does NOT mean that pupils with these characteristics and attainment will not attain C+ at Key Stage 4 - it simply indicates that it is less likely than for other pupils. Even for the lowest attaining group - W (Working towards Level 1) for both reading and writing at KS1 - we find that 9% attain C+ at Key Stage 4. Groupings where more than 50% of the grouping are in the 'high risk' category are also highlighted.

Analysis using this data can be found on the Education Datalab Website (<https://educationdatalab.org.uk/>).

KS4 Mathematics Grade Distribution for each KS1 RM Score (Pupils with English as First Language)



KS4 Mathematics Grade Distribution for each KS1 RM Score (Pupils with English as Additional Language)



<b>Grouping : All Pupils</b>					<b>% Attaining Grade C+ at KS4 for each KS1RM Score</b>										<b>Number of Pupils for each KS1RM Score</b>											
% high risk	EAL	Gender	Birth Term	FSM Group	0	1	2	3	4	5	6	7	8	9	10	0	1	2	3	4	5	6	7	8	9	10
21%	All	All	All	All	9%	15%	19%	32%	42%	53%	66%	76%	86%	92%	97%	8597	12611	47693	55689	79545	92897	130088	127347	146791	118738	157127

<b>Grouping : Term of Birth</b>					<b>% Attaining Grade C+ at KS4 for each KS1RM Score</b>										<b>Number of Pupils for each KS1RM Score</b>											
% high risk	EAL	Gender	Birth Term	FSM Group	0	1	2	3	4	5	6	7	8	9	10	0	1	2	3	4	5	6	7	8	9	10
22%	All	All	Aut	All	8%	13%	15%	26%	35%	47%	59%	71%	82%	90%	97%	1660	2609	9958	13274	20242	25419	38638	41342	52884	47394	74873
20%	All	All	Spr	All	9%	14%	18%	31%	42%	52%	66%	76%	86%	92%	97%	2713	3855	14897	17744	25682	30554	42997	42041	48588	38809	49066
28%	All	All	Sum	All	9%	16%	22%	36%	47%	59%	71%	81%	90%	95%	98%	4224	6147	22838	24671	33621	36924	48453	43964	45319	32535	33188

<b>Grouping : Gender</b>					<b>% Attaining Grade C+ at KS4 for each KS1RM Score</b>										<b>Number of Pupils for each KS1RM Score</b>											
% high risk	EAL	Gender	Birth Term	FSM Group	0	1	2	3	4	5	6	7	8	9	10	0	1	2	3	4	5	6	7	8	9	10
24%	All	Boys	All	All	10%	16%	21%	34%	45%	57%	68%	78%	87%	93%	97%	5419	8053	27182	33068	43778	48785	65127	62182	69285	51874	78904
27%	All	Girls	All	All	8%	13%	17%	29%	39%	49%	63%	74%	85%	92%	97%	3178	4558	20511	22621	35767	44112	64961	65165	77506	66864	78223

<b>Grouping : Gender, Term of Birth</b>					<b>% Attaining Grade C+ at KS4 for each KS1RM Score</b>										<b>Number of Pupils for each KS1RM Score</b>											
% high risk	EAL	Gender	Birth Term	FSM Group	0	1	2	3	4	5	6	7	8	9	10	0	1	2	3	4	5	6	7	8	9	10
17%	All	Boys	Aut	All	8%	14%	17%	28%	39%	51%	61%	73%	83%	91%	97%	1016	1696	5759	8023	11355	13825	19780	20681	25171	20920	37553
23%	All	Boys	Spr	All	10%	15%	20%	32%	45%	56%	68%	78%	87%	93%	97%	1707	2444	8537	10632	14175	15955	21570	20557	22932	16850	24599
31%	All	Boys	Sum	All	11%	17%	24%	38%	50%	63%	73%	82%	90%	95%	98%	2696	3913	12886	14413	18248	19005	23777	20944	21182	14104	16752
19%	All	Girls	Aut	All	9%	10%	12%	23%	30%	42%	56%	69%	81%	90%	97%	644	913	4199	5251	8887	11594	18858	20661	27713	26474	37320
27%	All	Girls	Spr	All	8%	13%	16%	28%	38%	48%	63%	74%	86%	92%	98%	1006	1411	6360	7112	11507	14599	21427	21484	25656	21959	24467
24%	All	Girls	Sum	All	7%	15%	20%	33%	44%	55%	70%	80%	89%	94%	98%	1528	2234	9952	10258	15373	17919	24676	23020	24137	18431	16436

<b>Grouping : FSM</b>					<b>% Attaining Grade C+ at KS4 for each KS1RM Score</b>										<b>Number of Pupils for each KS1RM Score</b>											
% high risk	EAL	Gender	Birth Term	FSM Group	0	1	2	3	4	5	6	7	8	9	10	0	1	2	3	4	5	6	7	8	9	10
25%	All	All	All	0_Never	12%	19%	22%	36%	46%	57%	69%	79%	88%	93%	98%	4423	6539	27346	34517	53916	66999	98934	101134	121691	103565	143221
60%	All	All	All	1_Low	5%	11%	15%	26%	35%	45%	55%	66%	77%	85%	93%	1824	2661	9557	10243	12768	12851	15790	13642	13412	8486	7920
64%	All	All	All	2_High	7%	11%	16%	25%	34%	44%	53%	64%	75%	82%	91%	2350	3411	10790	10929	12861	13047	15364	12571	11688	6687	5986

<b>Grouping : Gender, FSM</b>					<b>% Attaining Grade C+ at KS4 for each KS1RM Score</b>										<b>Number of Pupils for each KS1RM Score</b>											
% high risk	EAL	Gender	Birth Term	FSM Group	0	1	2	3	4	5	6	7	8	9	10	0	1	2	3	4	5	6	7	8	9	10
20%	All	Boys	All	0_Never	12%	19%	24%	37%	49%	60%	71%	80%	88%	94%	98%	2960	4349	16407	21357	30618	36229	50605	50059	57863	45290	72130
49%	All	Boys	All	1_Low	7%	12%	17%	28%	38%	49%	57%	68%	78%	86%	93%	1097	1611	5174	5750	6656	6242	7393	6366	6055	3634	3841
54%	All	Boys	All	2_High	8%	11%	17%	27%	36%	47%	56%	66%	77%	83%	92%	1362	2093	5601	5961	6504	6314	7129	5757	5367	2950	2933
14%	All	Girls	All	0_Never	11%	17%	21%	34%	42%	53%	67%	77%	87%	93%	98%	1463	2190	10939	13160	23298	30770	48329	51075	63828	58275	71091
42%	All	Girls	All	1_Low	4%	10%	13%	23%	32%	41%	53%	65%	77%	85%	93%	727	1050	4383	4493	6112	6609	8397	7276	7357	4852	4079
48%	All	Girls	All	2_High	6%	10%	14%	23%	31%	40%	51%	62%	74%	82%	90%	988	1318	5189	4968	6357	6733	8235	6814	6321	3737	3053

Grouping : Gender, FSM, Term of Birth					% Attaining Grade C+ at KS4 for each KS1RM Score										Number of Pupils for each KS1RM Score											
% high risk	EAL	Gender	Birth Term	FSM Group	0	1	2	3	4	5	6	7	8	9	10	0	1	2	3	4	5	6	7	8	9	10
13%	All	Boys	Aut	0_Never	10%	17%	19%	31%	42%	54%	65%	76%	85%	92%	97%	573	900	3266	4871	7568	9887	14694	16091	20336	17916	34037
39%	All	Boys	Aut	1_Low	7%	10%	12%	23%	33%	42%	51%	63%	75%	84%	92%	182	327	1130	1518	1822	1858	2481	2318	2471	1596	1962
43%	All	Boys	Aut	2_High	7%	11%	14%	23%	32%	42%	52%	63%	75%	81%	90%	261	469	1363	1634	1965	2080	2605	2272	2364	1408	1554
19%	All	Boys	Spr	0_Never	13%	18%	23%	36%	49%	59%	71%	80%	89%	94%	98%	938	1299	5119	6793	9807	11729	16805	16563	19194	14763	22551
49%	All	Boys	Spr	1_Low	5%	11%	18%	26%	37%	48%	59%	68%	79%	86%	93%	329	469	1640	1849	2235	2114	2440	2120	2021	1190	1162
54%	All	Boys	Spr	2_High	9%	11%	17%	24%	35%	47%	56%	66%	77%	85%	93%	440	676	1778	1990	2133	2112	2325	1874	1717	897	886
16%	All	Boys	Sum	0_Never	13%	21%	26%	42%	53%	65%	76%	84%	91%	96%	98%	1449	2150	8022	9693	13243	14613	19106	17405	18333	12611	15542
47%	All	Boys	Sum	1_Low	7%	13%	18%	32%	43%	54%	60%	73%	83%	90%	94%	586	815	2404	2383	2599	2270	2472	1928	1563	848	717
51%	All	Boys	Sum	2_High	8%	11%	20%	31%	41%	53%	60%	71%	81%	86%	95%	661	948	2460	2337	2406	2122	2199	1611	1286	645	493
15%	All	Girls	Aut	0_Never	13%	13%	16%	27%	34%	46%	60%	72%	84%	91%	97%	315	439	2119	2834	5412	7594	13204	15489	22005	22553	33610
47%	All	Girls	Aut	1_Low	4%	7%	9%	19%	25%	35%	47%	60%	74%	82%	92%	126	212	894	1057	1602	1917	2789	2554	2927	2129	2102
53%	All	Girls	Aut	2_High	5%	8%	10%	18%	26%	36%	44%	57%	70%	79%	88%	203	262	1186	1360	1873	2083	2865	2618	2781	1792	1608
13%	All	Girls	Spr	0_Never	12%	15%	19%	33%	41%	52%	67%	77%	88%	93%	98%	420	678	3334	4074	7418	10048	15934	16793	21069	19265	22268
42%	All	Girls	Spr	1_Low	3%	8%	11%	22%	32%	39%	52%	65%	77%	85%	94%	246	309	1343	1449	2008	2194	2753	2455	2520	1545	1276
48%	All	Girls	Spr	2_High	5%	11%	13%	23%	31%	39%	52%	61%	75%	83%	92%	340	424	1683	1589	2081	2357	2740	2236	2067	1149	923
19%	All	Girls	Sum	0_Never	10%	20%	23%	38%	48%	59%	73%	82%	91%	95%	98%	728	1073	5486	6252	10468	13128	19191	18793	20754	16457	15213
53%	All	Girls	Sum	1_Low	4%	12%	16%	26%	36%	47%	60%	69%	81%	89%	94%	355	529	2146	1987	2502	2498	2855	2267	1910	1178	701
58%	All	Girls	Sum	2_High	6%	10%	16%	26%	36%	45%	57%	68%	80%	87%	90%	445	632	2320	2019	2403	2293	2630	1960	1473	796	522

Grouping : EAL, Gender, FSM, Term of Birth					% Attaining Grade C+ at KS4 for each KS1RM Score										Number of Pupils for each KS1RM Score											
% high risk	EAL	Gender	Birth Term	FSM Group	0	1	2	3	4	5	6	7	8	9	10	0	1	2	3	4	5	6	7	8	9	10
12%	No	Boys	Aut	0_Never	8%	14%	15%	27%	39%	52%	63%	75%	84%	92%	97%	438	682	2651	4073	6475	8655	12950	14362	18389	16462	31907
52%	No	Boys	Aut	1_Low	6%	8%	10%	18%	28%	39%	47%	59%	72%	82%	91%	144	261	903	1213	1474	1521	2004	1877	2000	1313	1678
57%	No	Boys	Aut	2_High	2%	6%	9%	18%	25%	34%	45%	58%	70%	77%	88%	184	351	1014	1253	1474	1579	1891	1704	1768	1072	1229
18%	No	Boys	Spr	0_Never	11%	13%	19%	32%	47%	57%	69%	79%	89%	94%	98%	665	988	4179	5761	8517	10326	14863	14914	17514	13668	21143
49%	No	Boys	Spr	1_Low	4%	6%	13%	21%	33%	44%	54%	63%	76%	84%	92%	255	364	1296	1518	1774	1709	1953	1693	1648	987	978
68%	No	Boys	Spr	2_High	5%	7%	11%	19%	29%	38%	50%	59%	72%	82%	92%	310	514	1337	1553	1614	1541	1689	1368	1291	658	665
15%	No	Boys	Sum	0_Never	10%	17%	23%	39%	50%	64%	75%	84%	91%	95%	98%	1061	1641	6641	8362	11587	13036	17168	15850	16835	11684	14565
59%	No	Boys	Sum	1_Low	5%	9%	14%	27%	38%	49%	55%	69%	80%	89%	93%	452	631	1935	1977	2094	1803	1985	1559	1244	690	614
63%	No	Boys	Sum	2_High	4%	7%	14%	25%	35%	46%	53%	65%	77%	83%	94%	478	702	1808	1743	1751	1564	1630	1185	978	488	379
14%	No	Girls	Aut	0_Never	12%	8%	11%	21%	30%	43%	58%	71%	83%	91%	97%	225	301	1648	2267	4514	6484	11507	13769	19788	20914	31470
46%	No	Girls	Aut	1_Low	1%	6%	7%	13%	20%	31%	42%	57%	70%	81%	92%	92	169	745	862	1307	1564	2272	2129	2385	1836	1814
53%	No	Girls	Aut	2_High	2%	4%	6%	13%	19%	30%	37%	51%	65%	76%	86%	146	195	941	1068	1421	1565	2148	1955	2094	1421	1279
20%	No	Girls	Spr	0_Never	11%	12%	14%	28%	38%	50%	65%	76%	87%	93%	98%	280	474	2615	3277	6333	8700	14121	15070	19147	17969	20857
56%	No	Girls	Spr	1_Low	3%	3%	7%	17%	27%	34%	48%	61%	75%	82%	93%	185	244	1095	1160	1605	1772	2262	2005	2072	1318	1099
63%	No	Girls	Spr	2_High	1%	5%	8%	17%	23%	31%	45%	54%	70%	80%	90%	231	297	1275	1206	1539	1763	1999	1685	1588	927	718
17%	No	Girls	Sum	0_Never	7%	13%	19%	34%	45%	57%	71%	82%	90%	95%	98%	485	753	4386	5210	9027	11495	17077	17035	19010	15440	14251
52%	No	Girls	Sum	1_Low	2%	9%	12%	22%	31%	42%	56%	66%	79%	87%	93%	272	423	1742	1613	2018	1994	2309	1858	1603	1009	602
73%	No	Girls	Sum	2_High	3%	6%	11%	19%	29%	37%	50%	63%	76%	84%	88%	312	485	1769	1537	1827	1711	1996	1469	1101	639	416
7%	Yes	Boys	Aut	0_Never	16%	27%	36%	51%	58%	69%	77%	88%	93%	96%	98%	135	218	615	798	1093	1232	1744	1729	1947	1454	2130
19%	Yes	Boys	Aut	1_Low	11%	18%	22%	42%	57%	60%	72%	83%	89%	94%	96%	38	66	227	305	348	337	477	441	471	283	284
21%	Yes	Boys	Aut	2_High	18%	25%	30%	40%	53%	67%	70%	80%	88%	92%	98%	77	118	349	381	491	501	714	568	596	336	325
12%	Yes	Boys	Spr	0_Never	19%	32%	39%	55%	66%	73%	83%	90%	94%	97%	99%	273	311	940	1032	1290	1403	1942	1649	1680	1095	1408
25%	Yes	Boys	Spr	1_Low	11%	29%	36%	49%	54%	67%	77%	84%	90%	96%	98%	74	105	344	331	461	405	487	427	373	203	184
27%	Yes	Boys	Spr	2_High	19%	25%	35%	44%	55%	69%	75%	86%	92%	94%	95%	130	162	441	437	519	571	636	506	426	239	221
17%	Yes	Boys	Sum	0_Never	21%	34%	45%	62%	69%	78%	86%	92%	96%	99%	100%	388	509	1381	1331	1656	1577	1938	1555	1498	927	977
22%	Yes	Boys	Sum	1_Low	16%	29%	32%	57%	65%	74%	81%	89%	92%	97%	98%	134	184	469	406	505	467	487	369	319	158	103
38%	Yes	Boys	Sum	2_High	21%	22%	36%	49%	56%	70%	80%	88%	93%	96%	99%	183	246	652	594	655	558	569	426	308	157	114
10%	Yes	Girls	Aut	0_Never	16%	25%	31%	48%	51%	63%	76%	86%	91%	96%	99%	90	138	471	567	898	1110	1697	1720	2217	1639	2140
23%	Yes	Girls	Aut	1_Low	12%	9%	19%	42%	43%	56%	68%	79%	90%	91%	96%	34	43	149	195	295	353	517	425	542	293	288
25%	Yes	Girls	Aut	2_High	12%	21%	24%	38%	48%	54%	66%	76%	86%	89%	95%	57	67	245	292	452	518	717	663	687	371	329
9%	Yes	Girls	Spr	0_Never	14%	25%	37%	52%	62%	69%	80%	87%	93%	97%	99%	140	204	719	797	1085	1348	1813	1723	1922	1296	1411
20%	Yes	Girls	Spr	1_Low	3%	26%	25%	40%	54%	64%	72%	82%	88%	97%	98%	61	65	248	289	403	422	491	450	448	227	177
24%	Yes	Girls	Spr	2_High	15%	26%	30%	41%	53%	62%	71%	81%	89%	96%	99%	109	127	408	383	542	594	741	551	479	222	205
12%	Yes	Girls	Sum	0_Never	15%	36%	39%	56%	65%	73%	85%	90%	96%	98%	99%	243	320	1100	1042	1441	1633	2114	1758	1744	1017	962
28%	Yes	Girls	Sum	1_Low	8%	25%	34%	44%	55%	66%	78%	84%	92%	97%	97%	83	106	404	374	484	504	546	409	307	169	99
31%	Yes	Girls	Sum	2_High	14%	22%	35%	47%	56%	67%	78%	84%	94%	97%	96%	133	147	551	482	576	582	634	491	372	157	106