

## Moderation Summary Report

### Subject: Mathematics Level: Advanced Higher

This report summarises the context for moderation of the estimates received for this course, ie, historic attainment, the 2020 Starting Point Distributions and 2020 Estimates. It also provides the key outcomes of the moderation process for this course.

Full details of the moderation approach and the Attainment Statistics (August) 2020 can be found on SQA's statistics page (<https://www.sqa.org.uk/statistics>)<sup>1</sup>.

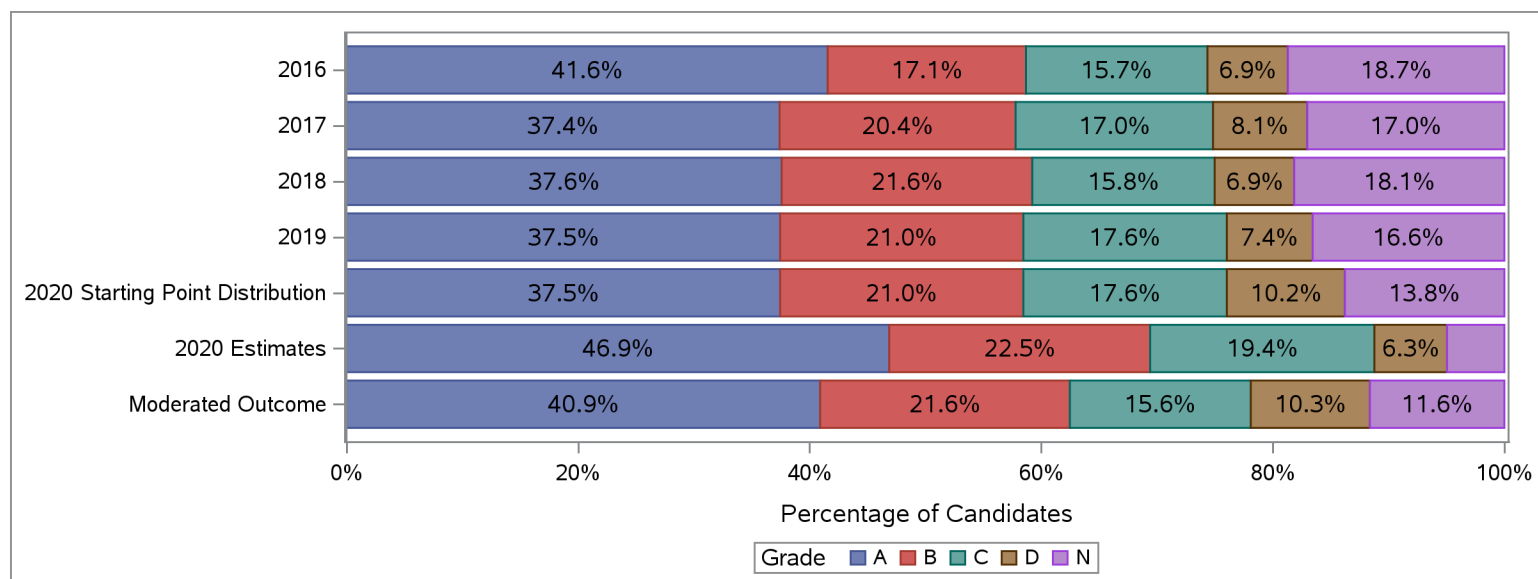
Furthermore, where small numbers of entries (values less than 5) could risk identification of individuals, those numbers and associated percentages have been suppressed in the tables below with an asterisk.

#### Historic Attainment, Starting Point Distribution, Estimates Received and Moderated Outcome

The table and chart below show:

- (a) historic attainment by grade for this course for years 2016 to 2019;
- (b) the Starting Point Distribution, which provides a projected distribution for 2020 attainment for this course, based on quantitative and qualitative analyses by SQA;
- (c) the distribution of 2020 estimates received from centres for this course (pre moderation); and
- (d) the distribution of grades after the moderation process.

Advanced Higher : Mathematics	Grade						Total	Grade					
	A	B	C	D	N	A		B	C	D	N	Total	
	Number	Number	Number	Number	Number	%		%	%	%	%	%	
<b>2016</b>	1,376	567	519	230	619	3,311	41.6	17.1	15.7	6.9	18.7	100.0	
<b>2017</b>	1,323	721	603	288	602	3,537	37.4	20.4	17.0	8.1	17.0	100.0	
<b>2018</b>	1,367	787	573	250	660	3,637	37.6	21.6	15.8	6.9	18.1	100.0	
<b>2019</b>	1,364	765	640	270	603	3,642	37.5	21.0	17.6	7.4	16.6	100.0	
<b>2020 Starting Point Distribution</b>	1,361	764	639	371	501	3,635	37.5	21.0	17.6	10.2	13.8	100.0	
<b>2020 Estimates</b>	1,704	819	704	228	180	3,635	46.9	22.5	19.4	6.3	5.0	100.0	
<b>Moderated Outcome</b>	1,487	784	568	374	422	3,635	40.9	21.6	15.6	10.3	11.6	100.0	



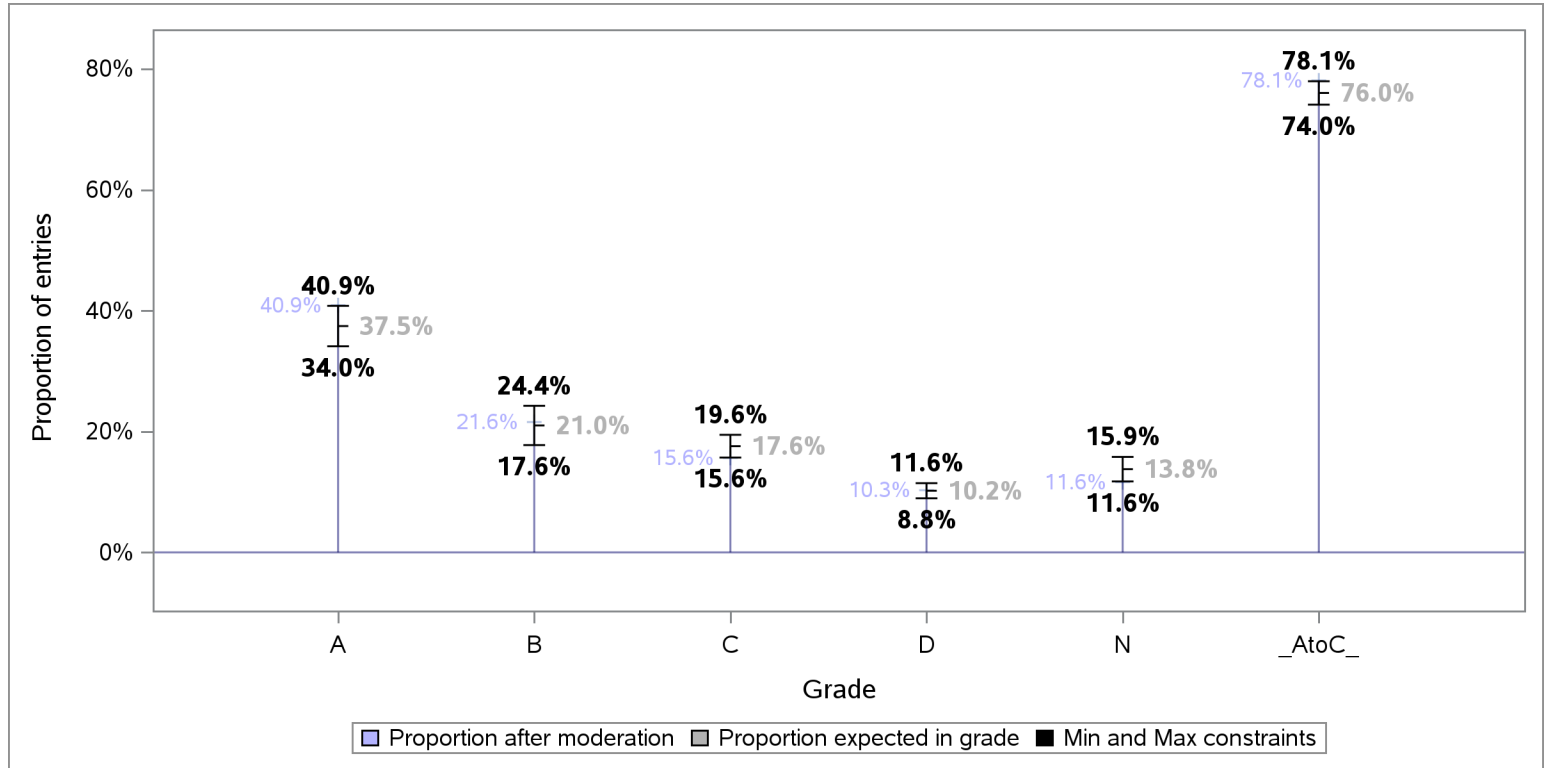
<sup>1</sup>Some of the figures in this summary report may differ slightly to figures in the Attainment Statistics (August) 2020 publication. This is because the the Attainment Statistics (August) 2020 publication excludes those candidates who were removed after the moderation process, including candidates who have subsequently been withdrawn by their presenting centre.



### Tolerance ranges for the Starting Point Distribution

To allow for year-on-year variability in attainment, tolerance ranges were derived for each projected grade proportion in the Starting Point Distribution, and the A to C rate. For each grade, the tolerance range is derived from the 90% confidence intervals for mean historic attainment from 2016 to 2019.

The chart below shows the projected proportion for each grade, as per the Starting Point Distribution, the tolerance range for each projected proportion and proportion per grade after the moderation process.



### Redistribution of estimates by grade as a result of moderation

The table below shows the number and proportion of entries that were estimated for each grade, and how these were redistributed to other grades as a result of the moderation process.

	Total Entries	Moderated Grade									
		A		B		C		D		N	
		Entries	% Entries	Entries	% Entries	Entries	% Entries	Entries	% Entries	Entries	% Entries
Estimated Grade											
ALL	3,635	1,487	40.9	784	21.6	568	15.6	374	10.3	422	11.6
A	1,704	1,451	85.2	244	14.3	9	0.5	*	*	*	*
B	819	35	4.3	521	63.6	209	25.5	54	6.6	*	*
C	704	*	*	19	2.7	336	47.7	255	36.2	93	13.2
D	228	*	*	*	*	14	6.1	61	26.8	153	67.1
N	180	*	*	*	*	*	*	*	*	176	97.8



### Centre Moderation Summary

As detailed in the SQA National Qualifications 2020 Awarding – Methodology Report, the moderation was undertaken at centre level. SQA did not adjust estimates for new centres presenting on this course, as there was no historical evidence on which to base adjustment. The table below provides key summary information about the centre moderation process and outcomes for this course.

<b>Moderation Summary</b>	<b>Number</b>	<b>Percentage of Total</b>
Entries for this course	3,635	100.0%
Centres presenting for this course	321	100.0%
New Centres	3	0.9%
Entries from New Centres	13	0.4%
Highest Entries Presented by a Centre	70	.
Median Entries Presented by Centres	9	.
Lowest Entries Presented by a Centre	1	.
Centres Adjusted	209	65.1%
Centres Not Adjusted	112	34.9%
Entries Adjusted	1,090	30.0%
Entries Adjusted Down	1,017	28.0%
Entries Adjusted Up	73	2.0%
Entries Adjusted Down by One Grade	861	23.7%
Entries Adjusted Up by One Grade	72	2.0%
Entries Adjusted Down by Two Grades	156	4.3%
Entries Adjusted Up by Two Grades	*	*
Entries Adjusted Down by Three Grades	*	*
Entries Adjusted Up by Three Grades	*	*
Entries Adjusted Down by Four Grades	*	*
Entries Adjusted Up by Four Grades	*	*
Entries Adjusted from A-C to D	309	8.5%
Entries Adjusted from A-C to N	93	2.6%
Entries Adjusted from D to A-C	14	0.4%
Entries Adjusted from N to A-C	*	*