

## AUSTRALIAN STUDENTS' ACHIEVEMENT BY TOPIC

The following tables show the percentage of correct responses among Australian students, by school year, for the mathematics topics identified in the various 2016 AMC papers.

<b>MIDDLE PRIMARY</b>				
TOPIC	CATEGORY	QUESTIONS	YEAR 3	YEAR 4
Number	Basic Arithmetic	1 2 3 11	74	83
	Fractions and Ratios	6	84	92
Algebra	Algebra	4 24 29	34	40
Geometry	2-D	5 18 19	34	40
Measurement	Measurement	7 10	63	76
Statistics & Probability	Statistics & Probability	16	43	55
Problem Solving	Routine	8 9 14 21	38	45
	Non-routine	12 15 20 23 25 27 30	22	27
	Enumeration	13 17 22 26 28	14	19

<b>UPPER PRIMARY</b>					
TOPIC	CATEGORY	QUESTIONS	YEAR 5	YEAR 6	YEAR 7
Number	Basic Arithmetic	1 14 27	59	61	61
	Fractions and Ratios	2 4	92	95	96
Algebra	Algebra	18 22 26 28	25	33	35
Geometry	2-D	3 10 12 17	47	52	51
Measurement	Measurement	5 9 15	64	70	71
Problem Solving	Routine	6 7 13 19 23	50	58	56
	Non-routine	11 20 21 24 25 30	23	27	28
	Enumeration	8 16 29	30	37	36

<b>JUNIOR</b>				
TOPIC	CATEGORY	JUNIOR QUESTIONS	YEAR 7	YEAR 8
Number	Basic Arithmetic	1 4	92	94
Number	Fractions and Ratios	5 8 10	57	64
Algebra	Algebra	12 16 24	45	51
Geometry	2-D	2 11 17	52	59
Measurement	Measurement	3 9	84	87
Problem Solving	Routine	7 13 14 15 20 28	40	45
Problem Solving	Non-routine	6 18 19 21 23 26 29	25	27
Problem Solving	Enumeration	22 25 27 30	12	13

<b>INTERMEDIATE</b>				
TOPIC	CATEGORY	INTERMEDIATE QUESTIONS	YEAR 9	YEAR 10
Number	Basic Arithmetic	1 6	83	85
	Fractions and Ratios	2 4 5	55	63
Algebra	Algebra	7 14	70	76
Geometry	2-D	8 9 11 12 13 21 26	33	37
	3-D	18	20	26
Measurement	Measurement	3	86	89
Statistics & Probability	Statistics & Probability	28	2	2
Problem Solving	Routine	10 15 16 19 20	39	42
	Non-routine	17 23 27 29	19	20
	Enumeration	22 24 25 30	19	19

<b>SENIOR</b>				
TOPIC	CATEGORY	SENIOR QUESTIONS	YEAR 11	YEAR 12
Number	Basic Arithmetic	1 11	61	64
Algebra	Algebra	2 4 8 10 27	57	60
Geometry	2-D	3 6 7 13 14 16 21	39	41
	3-D	18 23	22	25
Measurement	Measurement	5	81	84
Statistics & Probability	Statistics & Probability	9	35	44
Problem Solving	Routine	12 17	21	22
	Non-routine	15 22 24 25 26 30	13	13
	Enumeration	19 20 28 29	13	13