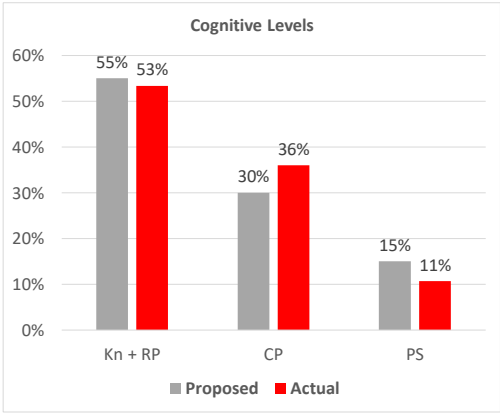
AMESA Matric Maths Review 2025 - Paper 2

Q. no	Procedure	Allocation of marks to cognitive levels				Marks	Topic	Comments
		Kn	RP	CP	PS			
		20%	35%	30%	15%			
		3,3%	50,0%	36,0%	10,7%	150		
Q1:	**Statistics & Regression [8]**							
1.1	Least squares regression line		3			3	8	Numbers are very big - chances of a mistake in typing is big
1.2	Prediction		2			2		
1.3	Correlation coefficient		2			2		
1.4	Ave. yearly decrease				1	1		Will it be marked correct if there is a minus sign in front of the answer?
Q2:	**Statistics & Regression [12]**							
2.1.1	Total no. of people	1				1	12	
2.1.2	No. of people between 40 and 80		2			2		
2.1.3	Histogram		3			3		
2.1.4	Skewness	1				1		
2.2	Standard deviation			5		5		Will there be marks given if a learner does all the working only using the eight given values?
Q3:	**Analytical Geometry [18]**							
3.1	Length of QR		2			2	18	
3.2	Gradient of QR		2			2		
3.3	Size of theta		2			2		
3.4	Equation of QR		2			2		
3.5	PQRS parm		2			2		
3.6	Coords of T			5		5		T happens to be the midpoint of QR. Learners can get T by finding the lengths of PQ and PR and realising the triangle is isosceles. Then they can use the midpoint formula.
3.7	Area of PQRS			3		3		
Q4:	**Analytical Geometry [21]**							
4.1	Value of p	1				1	21	
4.2	q = 4			4		4		More space needed in answer book
4.3	Equation of circle		2			2		
4.4	Minimum distance			1		1		
4.5	Coords of A and B		3			3		
4.6	Equation of tangent BC		4			4		
4.7	Coords of C		2			2		The question said "write down" but there was a calculation needed. More space needed in answer book.
4.8	Size of angle ACB			4		4		There are many methods in this question.
Q5:	**Trigonometry [17]**							
5.1.1	cos 40		2			2	17	
5.1.2	Trig expression			5		5		
5.1.3	sin 10			4		4		Do you have to fully simplify the fractions?
5.2.1	Simplify expression		4			4		
5.2.2	Value of x for real expression			2		2		
Q6:	**Trigonometry [13]**							
6.1	Identity			6		6	13	
6.2	AP General solution				7	7		
Q7:	**Trigonometry [10]**							
7.1	Period of f	1				1	10	
7.2	Tan graph		3			3		
7.3	f translated 45 degrees		1			1		
7.4	Range of h	1				1		
7.5	Values of x			4		4		Will a learner get any credit if they don't change the inequality because of the tan graph being the other way?

Statistics & Regression	20 ± 3	20
Analytical Geometry	40 ± 3	39
Trigonometry	50 ± 3	50
Euclidean Geometry	40 ± 3	41



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Q8:	**Trigonometry [10]**							
8.1	AB = 18 cm		2			2	10	
8.2	Length of AC		2			2		
8.3	Length of KC		2			2		
8.4	Size of angle KAC			4		4		
Q9:	**Euclidean Geometry [10]**							
9.1	Angle at centre theorem		5			5	10	
9.2.1	Angle O2		2			2		
9.2.2	Angle M		3			3		
Q10:	**Euclidean Geometry [8]**							
10.1	Angle QTS		3			3	8	
10.2	PQ || SR		3			3		
10.3	PT diameter		2			2		
Q11:	**Euclidean Geometry [23]**							
11.1.1	FD / CF		2			2	23	
11.1.2	BA / EA			4		4		More space needed in answer book
11.1.3	Area ΔGCF / area GFDA				4	4		More space needed in answer book
11.2.1	PR = (PW.QR)/QE		2			2		
11.2.2	PQ^2 = RQ.QZ		1			1		
11.2.3	ΔQSZ ||| ΔQRS		3			3		
11.2.4	PQ = QS			3		3		
11.2.5	PW = …				4	4		
		5	**75**	**54**	**16**	**150**		

	Kn	RP	CP	PS	Marks
Statistics and regression	2	12	5	1	20
	10%	60%	25%	5%	
Analytical Geometry	1	21	17	0	39
	3%	54%	44%	0%	
Trigonometry	2	16	25	7	50
	4%	32%	50%	14%	
Euclidean Geometry	0	26	7	8	41
	0%	63%	17%	20%	

Grade 11 vs Grade 12 Content	Grade 11	Grade 12
Statistics and Regression	60%	40%
Analytical Geometry	46%	54%
Trigonometry	48%	52%
Euclidean Geometry	44%	56%