

CATHOLIC SECONDARY SCHOOLS ASSOCIATION 2009 TRIAL HIGHER SCHOOL CERTIFICATE EXAMINATION GENERAL MATHEMATICS – MARKING GUIDELINES/SOLUTIONS

Section 1 20 marks

Questions 1 -				
Question	Answer	Content	Syllabus Assessed	Targeted Performance Bands
1	С	M4: Right-angled triangles	P2, P3	3-4
2	A	DA2: Data collection & sampling	P9	2-3
3	A	PB2:Relative frequency & probability	P2, P10	3-4
4	A	FM4: Credit & borrowing	H5, H8	3-4
5	C	FM1: Earning money	P2, P7	3-4
6	D	AM1: Basic algebraic skills	P2	3-4
7	A	DA3: Displaying single data sets	P1, P9, P11	3-4
8	С	DA5: Interpreting sets of data	H1, H2, H4	4-5
9 🕳	В	AM4:Modelling linear and non- linear relationships	H3, H5, H11	3-4
10	В	PB3: Multi-stage events	H2, H3, H10	3-4
11	D	AM3:Algebraic skills and techniques	H2, H11	3-4
12	В	M7:Spherical geometry	H1, H2, H7	4-5
13	C	DA6: The Normal Distribution	H2, H4, H9	4-5
14	D	M5: Further applications of area & volume	H1, H6, H7	4-5
15	A	FM3: Taxation	P2, P8	4-5
16	C	M1: Units of measurement	P2, P7	4-5
17	D	DA4: Summary statistics	H1, H2, H4	4-5
18	c	M3: Similarity of two-dimensional figures.	P2, P6	4-5
19	C	PB2:Relative frequency & probability PB3:Multi-stage events	P2, P10 H2, H3, H10	4-5
20	C	FM5: Annuities & loan repayments	Н5	4-5
21	В	AM3:Algebraic skills and techniques	H2,H7	4-5
22	A	PB4: Applications of Probability	H2, H4, H11	5-6

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Section II

78 marks

Question 23 (13 marks)

(a) (i) (1 mark)

Content: DA4: Summary Statistics.

Outcomes assessed: P2, P7

Targeted Performance Bands: 2-3

Solution	Criteria	Mark
$mean = \frac{47 + 52 + 57 + 57}{4} = 53.25kg$	1 mark for correct answer.	1

(a) (ii) (2 marks)

Content: DA4: Summary Statistics

Outcomes assessed: P2, P7

Targeted Performance Bands: 2-3

Solution	Criteria Cri	Marks
$51 = \frac{(4 \times 53.25) + x}{5}$ $x = 255 - 213$ $= 42kg$	2 marks for correct working and correct answer. 1 mark for significant progress towards correct answer.	2

(b) (i) (2 marks)

Content: M4: Right-angled triangles

Outcomes assessed: P2,P6, P7

Targeted Performance Bands: 3-4

Solution		Criteria	Marks
$x^2 = 10^2 + 8^2$	2 1	marks for correct working and	
x = 12.8 $= 13m$	1	rrect answer. mark for significant progress wards correct answer.	2

(b) (ii) (1 mark)

Content: M4: Right-angled triangles

Outcomes assessed: P2,P6, P7

Targeted Performance Bands: 3-4

Solution	Criteria	Mark
P=8+16+13=37m	1 mark for correct answer.	1

24+3

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(c) (2 marks)

Content: DA2: Data collection and sampling.

Outcomes assessed: P1, P9, P11 Targeted Performance Bands: 4-5

Solution	Criteria	Marks
$\frac{30}{P} = \frac{9}{72}$ $P = 240$	2 marks for correct solution. 1 mark for significant progress towards correct solution.	2

(d) (2 marks)

Content: M7: Spherical Geometry Outcomes assessed: H1,H2,H6, H7 Targeted Performance Bands: 4-5

Solution	Criteria	Marks
Time difference = 11+2=13hours	2 marks for correct solution.	
Angular distance = 13°x15°	1 mark for significant progress	2
= 195°	towards correct solution.	

(e) (i) (1 mark)

Content: AM2: Modelling and linear relationships

Outcomes assessed: P3, P4, P5
Targeted Performance Bands: 2-3

Ī	Solution	K			Criteria	Mark
	Cost = \$300	1	mark	for	correct solution	1

(e) (ii) (1 mark)

Content: AM2: Modelling and linear relationships

Outcomes assessed: P3, P4, P5
Targeted Performance Bands: 2-3

Solution		Criteria		
	Number of invitations = 125		1 mark for correct solution	1

(e) (iii) (1 mark)

Content: AM2: Modelling and linear relationships

Outcomes assessed: P3, P4, P5
Targeted Performance Bands: 3-4

Solution	Criteria	Mark
Cost = \$150	1 mark for correct solution	
Number of invitations = 75		1
Average $cost = 150 \div 75 = 2		

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Question 24 (13 marks)

(a) (2 marks)

Content: AM3:Algebraic skills and techniques

Outcomes assessed: H2, H3, H11 Targeted Performance Bands: 4-5

Solution	Criteria	Marks
$\frac{3t^2}{s} \times \frac{6}{5st}$ $= \frac{18t^2}{5s^2t}$ $= \frac{18t}{5s^2}$	2 marks for correct working and correct answer. 1 marks for significant progress towards answer.	2

(b) (i) (1 mark)

Content: DA5:Interpreting sets of data Outcomes assessed: H4,H5, H11 Targeted Performance Bands: 2-3

Solution	Criteria	Mark
45	1 mark for correct answer.	1

(b) (ii) (1 mark)

Content: DA5:Interpreting sets of data Outcomes assessed: H4,H5, H11 Targeted Performance Bands: 2-3

1 8		
Solution	Criteria	Mark
28	1 mark for correct answer.	1

(b) (iii) (3 marks)

Content: DA5:Interpreting sets of data Outcomes assessed: H4,H5, H11 Targeted Performance Bands: 5-6

Solution	Criteria	Marks
Sydney is positively skewed, Melbourne has a slight negative skew. Sydney is clustered in the 20s (median=28) while Melbourne is clustered around 30s (median=34) Melbourne has a greater spread (range=27) than Sydney (range=18).	3 marks with a mark given to a correct comment on each aspect. 2 marks for significant correct comments on aspects. 1 mark for a correct comment.	3

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(c) (i) (2 marks)

Content: M4: Right-angled triangles Outcomes assessed: P2,P6, P7 Targeted Performance Bands: 3-4

Solution	Criteria	Marks
$\cos 50^0 = \frac{15}{x}$ $x = 23.3m$	2 marks for correct solution.1 mark for significant progress towards correct solution.	2

(c) (ii) (2 marks)

Content: M6:Applications of trigonometry

Outcomes assessed: H6,H7

Targeted Performance Bands: 4-5

Solution	Criteria	Marks
$\frac{CD}{\sin 18^0} = \frac{23.3}{\sin 32^0}$ $CD = 14m$	2 marks for correct solution. 1 mark for significant progress towards correct solution.	2

(d) (2 marks)

Content: FM1:Earning Money Outcomes assessed: P1, P2, P8 Targeted Performance Bands: 4-5

Solution	Criteria	Marks
$Commission = 400 + (3000 + 0.02 \times 50000)$ $= 4400	2 marks for correct solution. 1 mark for significant progress towards correct solution.	2



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Question 25 (13 marks)

(a) (i) (1 mark)

Content: FM4: Credit and Borrowing

Outcomes assessed: H2

Targeted Performance Bands: 2-3

Solution	Criteria	Mark
$20.44 \div 365 = 0.056\%$	1 mark for correct answer.	11

(a) (ii) (2 marks)

Content: FM4: Credit and Borrowing

Outcomes assessed: H8

Targeted Performance Bands: 3-4

Solution	Criteria	Marks
$Interest = 0.00056 \times 2699 \times 23 = 34.76	2 marks for correct solution.	
Total = \$2699 + \$34.76 = \$2733.76	1 mark for significant progress towards correct solution.	2
Renata paid \$2733.76	towards correct solution.	

(b) (i) (1 mark)

Content: DA3:Displaying single data sets

Outcomes assessed: P1, P4

Targeted Performance Bands: 3-4

Solution	Criteria	Mark
8+6+7+2+5=28	1 mark for correct answer.	11

(b) (ii) (1 mark)

Content: PB2: Relative Frequency and Probability

Outcomes assessed: P2, P10

Targeted Performance Bands: 3-4

			Village Control of the Control of th
1	Solution	Criteria	Mark
	$P(light/darkBrown) = \frac{8+6}{28} = \frac{1}{2}$	1 mark for correct answer.	1

(b) (iii) (1 mark)

Content: PB1: The language of chance

Outcomes assessed: P1, P3

Targeted Performance Bands: 3-4

Solution		Criteria	Mark
$P(black) = \frac{5}{28} = 0.18$ $P(black)$			1
+		1 mark for correct answer.	
0	1		

(c) (i) (3 marks)

Content: FM5:Annuities and loan repayments

Outcomes assessed: P2, P7

Targeted Performance Bands: 4-5

Solution	Criteria	Marks
$A = 300 \left[\frac{(1.003)^{36} - 1}{0.003} \right]$ $= 11386.76 Therefore Julie will not have the required money.	3 marks for correct mathematical solution and correct conclusion. 2 marks for significant progress towards correct solution. 1 mark for some progress towards solution.	3

(c) (ii) (1 mark)

Content: FM5: Annuities and loan repayments

Outcomes assessed: P2, P7

Targeted Performance Bands: 2-3

Solution	Criteria	Mark
\$12000-\$11386.76=\$613.24	1 mark for correct answer.	1

(d) (i) (1 mark)

Content: DA6: The normal distribution

Outcomes assessed: H4, H5, H11

Targeted Performance Bands: 3-4

Solution	Criteria	Mark
$z = \frac{92 - 80}{12} = 1$	1 mark for correct answer.	1

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(d) (ii) (1 mark)

Content: DA6: The normal distribution

Outcomes assessed: H4,H5, H11
Targeted Performance Bands: 4-5

Solution	Criteria	Mark
Her score is 2 standard deviations above the mean.	1 mark for correct answer.	1

(d) (iii) (1 mark)

Content: DA6: The normal distribution

Outcomes assessed: H4,H5, H11
Targeted Performance Bands: 5-6

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Solution	Criteria	Mark
Hospitality because the score was 2 SDs above the mean compared to Food Technology which is only 1 SD above the mean.	1 mark for correct answer.	1



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Question 26 (13 marks)

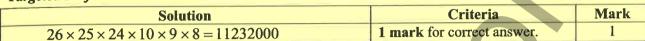
(a) (i) (1 mark)

Content: PB3: Multi-stage events Outcomes assessed: H2,H3, H4, H10 Targeted Performance Bands: 4-5

Solution	Criteria	Mark
$26 \times 26 \times 26 \times 10 \times 10 \times 10 = 17,576,000$	1 mark for correct answer.	1

(a) (ii) (1 mark)

Content: PB3: Multi-stage events Outcomes assessed: H2,H3, H4, H10 Targeted Performance Bands: 5-6



(b) (i) (2 marks)

Content: FM5: Annunities and loan repayments

Outcomes assessed: H1,H5
Targeted Performance Bands: 4-5

Targeleu Perjormance Danas: 4-3		
Solution	Criteria	Marks
$n = 52 \times 25 = 1300$		
0.052		
$r = \frac{0.052}{52} = 0.001$		
52		=
$(1+0.001)^{1300}-1$		
$N = 275 \left\{ \frac{(1+0.001)^{1300} - 1}{0.001(1+0.001)^{1300}} \right\}$		
$[0.001(1+0.001)^{5300}]$		
N = 200005.0585		
	2 marks for correct answer.	
= \$200005	1 mark for using correct	2
	formula.	
Graphics calculator:		
n=1300		
I%=5.2		
PV=?		
PMT=275		
FV=0		
P/Y=52		
C/Y=52		

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(b) (ii) (1 mark)

Content: FM5: Annunities and loan repayments

Outcomes assessed: H1,H5

Targeted Performance Bands: 4-5

Solution	Criteria	Mark
PV=20000 PMT=300 FV=0 P/V=52	1 mark for some valid comment regarding reducing the length of the loan. The mathematical calculations are not required for the mark.	1

(c) (i) (2 marks)

Content: DA5: Interpreting sets of data

Outcomes assessed: H2, H4

Targeted Performance Bands: 3-4

Solu Solu	tion	Criteria	Marks
A=23, B=275	Old I	1 mark for each correct answer.	2

(c) (ii) (1 mark)

Content: PB4: Applications of probability

Outcomes assessed:H2, H4.

Targeted Performance Bands:3-4.

Turgeteu Terjormunc	e Dunus. J-T.		
	Solution	Criteria	Marks
$\frac{676}{100} = \frac{13}{100}$		1 mark for each correct answer.	1
780 15			

(c) (iii) (1 mark)

Content: PB4: Applications of probability

Outcomes assessed:H2, H4.

Targeted Performance Bands:3-4.

Solution	Criteria	Mark
75 3	1 mark for correct answer.	1
$\frac{1}{350} = 14$		

(d) (i) (2 marks)

Content: M5: Further applications of area and volume

Outcomes assessed: H1, H2, H6, H7 Targeted Performance Bands: 4-5

Solution	Criteria	Marks
$V = \pi \times 18^{2} \times 7$ = 7125.13213 = 7125 m^{3}	 2 marks for correct working and correct answer. 1 mark for significant progress towards correct solution. 	2

(d) (ii) (2 marks)

Content: M5: Further applications of area and volume

Outcomes assessed: H1, H2, H6, H7 Targeted Performance Bands: 4-5

Solution	Criteria	Marks
$2545kl = 2545m^3$		
$2545 = \pi \times 18^2 \times h$	2 marks for correct solution.	
$h = \frac{2545}{\pi \times 18^2}$	1 mark for significant progress	2
$n = \frac{\pi}{\pi \times 18^2}$	towards correct solution.	
= 2.5m		

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Question 27 (13 marks)

(a) (2 marks)

Content: M1: Units of Measurement Outcomes assessed: P2, P5, P7 Targeted Performance Bands: 4-5

Solution	Criteria	Marks
Original Selling Price = 800x1.3 = \$1040 Sale Price = 1040x0.7 = \$728	2 marks for correct solution. 1 mark for significant progress towards correct solution.	2

(b) (i) (1 mark)

Content: PB3: Multi-stage events Outcomes assessed: H2, H3, H4, H10 Targeted Performance Bands: 4-5

Solution	Criteria	Mark
Goal O.7 Goal O.7 Goal O.7 Goal O.7 Goal Miss O.7 Goal Miss	1 mark for correct tree and probabilities on branches.	1

(b) (ii) (1 mark)

Content: PB3: Multi-stage events Outcomes assessed: H2, H3, H4, H10 Targeted Performance Bands: 4-5

Solution	Criteria	Mark
$0.3 \times 0.3 = 0.09$	1 mark for correct answer.	1

(b) (iii) (2 marks)

Content: PB3: Multi-stage events Outcomes assessed: H2, H3, H4, H10. Targeted Performance Bands 4-5

Solution	Criteria	Marks
$(0.7 \times 0.3) + (0.3 \times 0.7)$ = 0.42	2 marks for correct solution. 1 mark for progress towards correct answer.	2

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(c) (2 marks)

Content: M6: Applications of trigonometry

Outcomes assessed: H1, H6, H7 Targeted Performance Bands: 4-5

Solution	Criteria	Marks
$AB^{2} = 55^{2} + 47^{2} - 2 \times 55 \times 47 \times \cos 80^{0}$ $AB = \sqrt{4336.238921}$ $= 65.850124$ $= 66M$	2 marks for correct solution. 1 mark for significant progress towards correct solution.	2

(d) (i) (2 marks)

Content: AM4: Modelling linear and non-linear relationships

Outcomes assessed: H2,H3

Targeted Performance Bands: 4-5

Solution	Criteria	Marks
Perimeter of rectangle $= 3x + x + 3x + x$ $= 8x$ $\therefore \text{ Perimeter of square} = 140 - 8x$ Length of square $= \frac{140 - 8x}{4}$ $= 35 - 2x$	2 marks for correct solution 1 mark for correct perimeter of square 1 mark for division of incorrect perimeter of square by 4	2

(d) (ii) (2 marks)

Content: AM4: Modelling linear and non-linear relationships

Outcomes assessed: H2,H3,H5 H11. Targeted Performance Bands: 4-5

Solution	Criteria	Marks
2500 A		
1500	2 marks for correct graph. 1 mark for reasonable graph	
1000	(appropriate scales, y-intercept ≈ 1225, concave up)	2
5 10 15 20 25 30		

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(d) (iii) (1 mark)

Content: AM4: Modelling linear and non-linear relationships

Outcomes assessed: H2, H3, H5 H11

Targeted Performance Bands: 4-5

Solution	Criteria	Mark
From Graph:		
Minimum area occurs when $x = 10$.		
Minimum area		1
$= 1225 - 140(10) + 7(10)^2$		
$= 525 \text{ m}^2$		
OR		
For minimum area,	1 mark for correct answer.	1
b		
$ x = -\frac{2a}{2a} \\ -140 $		
-140		0
$=-\frac{1}{2\times7}$		
=10		
Minimum area		
$= 1225 - 140(10) + 7(10)^2$		
$= 525 \text{ m}^2$		
JWV III		

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Question 28 (13 marks)

(a) (3 marks)

Content: FM6- Depreciation Outcomes assessed: H2,H5 Targeted Performance Bands: 5-6

Solution	Criteria Marks
$S = V_o (1 - r)^n$	
$0.25 = 1(1-r)^5$	3 marks for correct working and correct answer.
$\sqrt[5]{0.25} = 1 - r$	2 marks for significant progress
$r = 1 - \sqrt[5]{0.25}$	towards correct solution. 1 mark for some progress towards
= 0.242	answer.
24.2%	

(b) (i) (1 mark)

Content: DA7: Correlation

Outcomes assessed: H1, H2, H4, H5, H9, H11

Targeted Performance Bands: 3-4

Solution	Criteria	Mark
174cm	1 mark for correct answer.	1

(b) (ii) (2 marks)

Content: DA7: Correlation

Outcomes assessed: H1, H2, H4, H5, H9, H11

Targeted Performance Bands: 5-6

Solution	Criteria	Marks
While two things may have a statistical correlation it does not necessarily mean that one causes the other. In this case they are not causal because some people can be short and heavy (e.g. student 70kg, 155cm) while others can be tall and light (e.g. student 57kg, 174cm)	2 marks for mentioning causality concept and examples from graph. 1 mark for stating causality or examples from graph.	2

(c) (2 marks)

Content: FM2: Investing money

Outcomes assessed: P2, P8

Targeted Performance Bands: 3-4

Solution	Criteria	Marks
$I = \Pr n$	2 marks for correct working and	
$315 = P \times 0.075 \times 1.5$ P = \$2800	answer. 1 mark for progress towards correct answer.	2

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(d) (i) (1 mark)

Content: PB2: Relative Frequency and Probability

Outcomes assessed: P2, P10, P11 Targeted Performance Bands: 3-4

Solution	Criteria	Mark
If Bill throws a 1, he must pass his die to Julie (to his left) and the game is over. The probability of this is $\frac{1}{6}$. If Bill throws a 6, he must pass his die to Julie (to his right). The probability of this is $\frac{1}{6}$. In all other cases the game continues. So the probability of Bill winning is $\frac{1}{6} + \frac{1}{6} = \frac{1}{3}$.	1 mark for correct explanation	1

(d) (ii) (1 mark)

Content: AM1: Basic algebraic skills Outcomes assessed: P2, P3, P7 Targeted Performance Bands: 2-3

Solution	Criteria	Mark
P(game ending after 2 turns)		
$=1-\left(\frac{2}{3}\right)^2$	1 mark for correct answer	1
$=\frac{5}{9}$		

(d) (iii) (3 marks)

Content: AM3: Algebraic skills and techniques

Outcomes assessed: H2, H3, H7 Targeted Performance Bands: 5-6

Solution	Criteria	Marks
P(game ending after n turns) = 0.99		
$1 - \left(\frac{2}{3}\right)^n = 0.99$		
$\left(\frac{2}{3}\right)^n = 0.01$	3 marks for correct answer	
Guess & check:	including conclusion 2 marks for correct solution to	
$n = 10, \left(\frac{2}{3}\right)^{10} = 0.0173$	equation but incorrect or missing	3
$n = 11, \left(\frac{2}{3}\right)^{11} = 0.1156$	conclusion 1 mark for using 0.99 (or	
$n = 12, \left(\frac{2}{3}\right)^{12} = 0.008$	equivalent) in formula	
The game will need 12 turns to be at least 99% of finishing.		

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