Note (for Section B and C of each sub-paper):

*Mark for Answer:

- (1) The Mark for Answer may be given when there is a correct answer without any work shown.
- (2) If the work shown is incorrect, the Mark for Answer will not be given.
- (3) If the work shown is poorly presented but there is a correct answer, the Mark for Answer may be given.

**Mark for Presentation:

- (1) If the work shown is correct but the answer is incorrect, the Mark for Presentation may be given.
- (2) If the work shown is incorrect, the Mark for Presentation will not be given.
- (3) If the numerical value of the answer is correct but not the approximate value as required by the question, the Mark for Presentation will not be given.
- (4) The Mark for Presentation may include overall work such as mathematical expressions, units, written explanations, use of symbols, etc.

r.t. xxx means "accept answers which can be rounded to xxx".

Steps that may be skipped are shown in shade.

Section A - Sub-paper 1 (9ME1) (1 mark each)

- 1. C (9ME2-1)
- 2. A (9ME4-1)
- 3. C
- 4. B
- 5. B
- 6. C
- 7. D (9ME4-7)
- 8. D
- 9. A
- 10. D (9ME2-10)
- 11. C (9ME2-13)
- 12. A
- 13. B (9ME2-11)
- 14. D (9ME3-14)
- 15. B (9ME2-15)
- 16. C (9ME4-16)
- 17. B (9ME4-17)
- 18. A
- 19. A (9ME2-20)
- 20. D

9ME1

Section B - Sub-paper 1 (9ME1)

Question Number	Suggested Answers	Marks	Notes
21. (9ME2-21)	(i) +3 / 3 (ii) −2	1	Must be all correct
22.	$\frac{9.1 \times 10^5}{\text{ bytes per second}}$	1	
23.	There are 48 girl guides.	1	
24. (9ME4-24)	$x = \underline{34}$ $y = \underline{55}$	1	Must be all correct
25. (9ME2-25)	The coefficient of y is $\underline{-8}$.	1	
26.	$y^3 + y^2 + 2y$	1	
27.	(2x+1)(x-1)	1	
28. (9ME4-28)	approximate solution	1	
29. (9ME2-28)	$a^2 + 16a + 64$	1	
30.	$x \le -6$	1	
31.	The total surface area of the cuboid is22 cm ² .	1	
32.	The order of rotational symmetry is	1	
33.	x = <u>145°</u>	1	No need to consider unit
34.	AGHD	1	Or its correct permutation
35.(9ME2-35)	B, C	1	Must be all correct
36.	The coordinates of point A are $(\underline{6}, \underline{-8})$.	1	Must be all correct
37.	(i) Discrete data (ii) Continuous data	1	Must be all correct
38.	(a) Time (min) 1 - 10 11 - 20 21 - 30 31 - 40 41 - 50 51 - 60 Frequency 6 10 14 8 7 5	1* (38a)	Must be all correct
	(b) There are 30 students whose reading time is less than 30.5 minutes.	1* (38b)	
	(c) 12 students can get bookmarks.	1* (38c)	
39.	The required probability = $\frac{31}{100}$	1	or 0.31

9ME1

Section C - Sub-paper 1 (9ME1)

Question Number	Suggested Answers	Marks	Notes
40.	The amount = $4650 \times 3 \% \times 2 + 4650$	1 (40-1)	
(9ME4-40)	= \$4929	1* (40-2)	
		1** (40-3)	
41.	The time required $=\frac{180}{60}$ hours	1 (41-1)	
	= 3 hours	1* (41-2)	
	Tommy takes 3 hours to arrive at city B.	1** (41-3)	
42.	The area of the sector		
	$=\pi(6^2)\left(\frac{150^\circ}{360^\circ}\right)$	1 (42-1)	
	≈ 47.1238898		
	= $47.1 \mathrm{cm}^2$ (correct to the nearest $0.1 \mathrm{cm}^2$)	1* (42-2)	r.t. 47.1 cm ²
		1** (42-3)	
43.	The total surface area of the pyramid		
	$=\frac{5\times8}{2}\times4+5^2$	1 (43-1)	
	$= 105 \text{ cm}^2$	1* (43-2)	
		1** (43-3)	

Question Number	Suggested Answers	Marks	Notes
44.		1* (44-1)	Must be all correct
(9ME4-44)	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1* (44-3)	In case the data in the above table is incorrect, students can still use the ordered pairs to draw a straight line. The line must pass through (-2, 6) and the range of <i>x</i> must include the values from -2 to 4. Correct graph (include: correct position, use ruler to draw the line, pass through the 3 correct points and extend two ends of the line) If the table is incomplete but no mistakes are found and the graph is correct, (0, 1, 1) can be given.
45.	Of these 5 competitions, Tom's scores is less than 15 in 4 of the competitions. OR	0 0	 Without any reasonable explanation Conclusion is incorrect
	Of these 5 competitions, Tom's scores is higher than 15 in only 1 of the competitions.	1 0	 Explanation is reasonable but incomplete Explanation is reasonable
	OR		but no conclusion is drawn
	Tom applies the concept of median to the mean.		
	∴ I disagree with Tom's saying.	1 1	• Explanation is reasonable and the conclusion is correct

Question Number	Suggested Answers		Marks	Notes
46.	$\angle ABD = 55^{\circ}$ (given)			Or other correct proofs
(9ME2-46)	$\angle ACF = 125^{\circ}$ (given)			
	$\angle ACE + 125^{\circ} = 180^{\circ}$ (adj. \angle s on s	t. line)		
	∠ <i>ACE</i> = 55°			
	$\therefore \angle ACE = \angle ABD$			
	$\therefore BD // FE$ (corr. \angle s equ	nal)		
	Condition	ns		
	(1) Any correct proof with correct re	easons	3	
	(2) Any correct proof with poor pres	entation, missing	2	
	reasons or inappropriate reasons			
	(3) Incomplete proof with any one correct statement			
	and one corresponding reason			
	(4) Incomplete proof		0	
47.	$\begin{cases} y = 2x + 4 & \dots \end{cases}$			
(9ME2-47)	$\begin{cases} y = 2x + 4 & \dots(1) \\ x + y = 19 & \dots(2) \end{cases}$			
	()			
	Substitute (1) into (2)		1 (47-1)	Correct method
	x + 2x + 4 = 19			(eliminating one of the
	3x = 15			variables)
	x = 5			Correct value of x (or y)
	Substitute $x = 5$ into (1)			
	y = 2(5) + 4		1 (47-3)	Correct method
	y = 14			
			1* (47-4)	Both values are correct

Note (for Section B and C of each sub-paper):

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- (3) If the work shown is poorly presented but there is a correct answer, the Mark for Answer may be given.

**Mark for Presentation:

- (1) If the work shown is correct but the answer is incorrect, the Mark for Presentation may be given.
- (2) If the work shown is incorrect, the Mark for Presentation will not be given.
- (3) If the numerical value of the answer is correct but not the approximate value as required by the question, the Mark for Presentation will not be given.
- (4) The Mark for Presentation may include overall work such as mathematical expressions, units, written explanations, use of symbols, etc.

r.t. xxx means "accept answers which can be rounded to xxx".

Steps that may be skipped are shown in shade.

Section A - Sub-paper 2 (9ME2) (1 mark each)

- 1. C (9ME1-1)
- 2. A (9ME3-2)
- 3. A (9ME4-2)
- 4. A (9ME4-4)
- 5. D
- 6. B
- 7. B
- 8. C
- 9. B (9ME3-8)
- 10. D (9ME1-10)
- 11. B (9ME1-13)
- 12. C (9ME3-12)
- 13. C (9ME1-11)
- 14. A
- 15. B (9ME1-15)
- 16. D
- 17. C
- 18. D
- 19. D (9ME4-19)
- 20. A (9ME1-19)

Section B - Sub-paper 2 (9ME2)

Question Number	Suggested Answers	Marks	Notes
21. (9ME1-21)	(i) +3 / 3 (ii) -2	1	Must be all correct
22. (9МЕЗ-22)	4.07	1	
23.	ℓ = <u>50</u>	1	
24.	4n	1	
25. (9ME1-25)	The coefficient of y is $\underline{-8}$.	1	
26.	$(x+1)^2 / (x+1)(x+1)$	1	
27.	x = <u>-6</u>	1	
28. (9ME1-29)	$a^2 + 16a + 64$	1	
29.	P =2	1	
30. (9ME3-30)	x > 3	1	
31.	The volume of the sphere is <u>905</u> cm ³ .	1	
32.	Q and R	1	Must be all correct
33.	(a) $x = 9$ (b) $y = 100$	1	Must be all correct No need to consider unit
34.	$x = 64^{\circ}$	1	No need to consider unit
35. (9ME1-35)	B, C	1	Must be all correct
36.	The coordinates of P' are $(\underline{2},\underline{4})$.	1	Must be all correct
37. (9МЕЗ-37)	x = 12.1	1	r.t. 12.1 No need to consider unit

Question Number	Suggested Ans	swers		Marks	Notes
38.					
	Table 1	Table 1			
	Number of multiple choice questions answered correctly	Frequency		1* (38-1)	Must be all correct
	1 – 15	4			
	16 – 30	7			
	31 – 45	4			
	Table 2				
	Number of multiple choice questions answered correctly	Frequency		1* (38-2)	Must be all correct
	1-9	1			
	10 – 18	5			
	19 – 27	19 – 27			
	28 – 36	4			
	37 – 45	2			
39.	The weighted mean mark of	Ivy is <u>79</u> .		1	

Section C - Sub-paper 2 (9ME2)

Question Number	Suggested Answers	Marks	Notes
40.	Profit = \$420 × 35%	1 (40-1)	
	= \$147	1* (40-2)	
		1** (40-3)	
41.	(a) $a^{-4} \cdot a^7$		
	$=a^3$	1* (41a)	
	(b) $(a^{-4} \cdot a^7)^2$		
	$=(a^3)^2$		
	$=a^{3\times 2}$	1 (41b1)	Using $(y^m)^n = y^{mn}$
	$=a^6$	1* (41b2)	Correct answer
			(getting marks 1 1)
42.	$\therefore \triangle ABC$ is an equilateral triangle,		
(9ME4-43)	$x = 60^{\circ}$	1* (42-1)	
	$x + y = 180^{\circ}$	1 (42-2)	
	$60^{\circ} + y = 180^{\circ}$		
	y = 120°	1* (42-3)	
		1** (42-4)	
43.	$QR^2 = PR^2 - PQ^2$	1 (43-1)	
	$=9.7^2-6.5^2$		
	= 51.84		
	QR = 7.2 km	1* (43-2)	
		1** (43-3)	

Question		S	Suggeste	d Answe	ers		Marks	Notes
Number 44. (9ME3-46)	-5 -4	x y	-2 6 5 - 1		4 -3	= 0	1* (44-1) 1 (44-2) 1* (44-3)	Must be all correct In case the data in the above table is incorrect, students can still use the ordered pairs to draw a straight line. The line must pass through (-2, 6) and the range of <i>x</i> must include the values from -2 to 4. Correct graph (include: correct position, use ruler to draw the line, pass through the 3 correct points and extend two ends of the line) If the table is incomplete but no mistakes are found and the graph is correct, (0, 1, 1) can be given.
45.	(a)							oc given.
		ı	Į	Jnits dig	it			
			3	6	8		14 (45)	March by all assured
	Tens	3	33	36	38		1* (45a)	Must be all correct
	digit	6	63	66	68			
		8	83	86	88			
	(b) The probability that the two-digit number formed is a multiple of $9 = \frac{2}{9}$					1* (45b)		

Question Number	Suggested Answers	Marks	Notes
46.	$\angle ABD = 55^{\circ}$ (given)		Or other correct proofs
(9ME1-46)	$\angle ACF = 125^{\circ}$ (given)		
	$\angle ACE + 125^{\circ} = 180^{\circ}$ (adj. \angle s on st. line)		
	$\angle ACE = 55^{\circ}$		
	$\therefore \angle ACE = \angle ABD$		
	$\therefore BD // FE$ (corr. \angle s equal)		
	Conditions		
	(1) Any correct proof with correct reasons	3	
	(2) Any correct proof with poor presentation,	2	
	missing reasons or inappropriate reasons		
	(3) Incomplete proof with any one correct	1	
	statement and one corresponding reason		
	(4) Incomplete proof	0	
47.	$\left(y-2x+4\right) \qquad (1)$		
(9ME1-47)	$\begin{cases} y = 2x + 4 & \dots (1) \\ x + y = 19 & \dots (2) \end{cases}$		
	$(x + y - 1) \qquad \dots (2)$		
	Substitute (1) into (2)		
	x + 2x + 4 = 19	1 (47-1)	Correct method (eliminating
	3x = 15		one of the variables)
	x = 5	1* (47-2)	Correct value of x (or y)
	Substitute $x = 5$ into (1)		
	y = 2(5) + 4	1 (47-3)	Correct method
	y=14		
		1* (47-4)	Both values are correct

Note (for Section B and C of each sub-paper):

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Section A - Sub-paper 3 (9ME3) (1 mark each)

- 1. C
- 2. A (9ME2-2)
- 3. C
- 4. D
- 5. C (9ME4-5)
- 6. C
- 7. B (9ME4-6)
- 8. B (9ME2-9)
- 9. B
- 10. D
- 11. A
- 12. C (9ME2-12)
- 13. B
- 14. D (9ME1-14)
- 15. A
- 16. D
- 17. A
- 18. A
- 19. B
- 20. D (9ME4-20)

Section B - Sub-paper 3 (9ME3)

Question Number	Suggested Answers	Marks	Notes
21.	A = -4 $B = -8$ $C = 6/+6$	1	Must be all correct
22. (9ME2-22)	4.07	1	
23. (9ME4-23)	-1	1	
24.	The value of the 4^{th} term of the sequence is $\underline{18}$.	1	
25.	$6a^2 + 2a$	1	
26.	(a+4)(y+1)	1	
27. (9ME4-27)	(1+y)(1-y)	1	
28.	4x	1	
29. (9ME4-29)	T = 2(W-5) / $T = 2W-10$	1	
30. (9ME2-30)	x > 3	1	
31.		1	
32.	$x = 70^{\circ}$	1 (32-1)	No need to consider
	$y = 30^{\circ}$	1 (32-2)	unit
33.	x = 80	1	No need to consider unit
34.	AC / CA	1	

Question Number	Suggested Answers	Marks	Notes
35.	x = <u>5</u>	1	
36.	AB = 5 units	1	
37. (9ME2-37)	x = 12.1	1	r.t. 12.1 No need to consider unit
38.	Mean = <u>34</u> mm Median = <u>26</u> mm	1 (38-1) 1 (38-2)	
39. (9ME4-39)	The modal class of the numbers of books borrowed is $20 - 29$.	1	Must be all correct

Section C - Sub-paper 3 (9ME3)

Question Number	Suggested Answers	Marks	Notes
40.	Compound interest		
	$= 12560 \times (1 + 2\%)^3 - 12560$	1 (40-1)	
	≈ 768.77248		
	= \$769 (correct to the nearest dollar)	1* (40-2)	r.t. \$769
		1** (40-3)	
41.	The value of the notebook computer this year		
	$= 8400 \times (1-25\%)^2$	1 (41-1)	
	= 4725	1* (41-2)	
	The value of the notebook computer this	1** (41-3)	
	year is \$4725.		
	OR		
	$8400 \times 0.75 = 6300$	1 (41-1)	Correct method
	$6300 \times 0.75 = 4725$	1* (41-2)	(multiply 0.75 twice)
	The value of the notebook computer this	1** (40-3)	
	year is \$4725 .		
42.	$x = 2\pi (10) \left(\frac{72^{\circ}}{360^{\circ}} \right)$	1 (42-1)	
	(360°)	1 (.2.1)	
	$=4\pi \mathrm{cm}$	1* (42-2)	
		1** (42-3)	
43.	$\tan \angle BAC = \frac{BC}{AC}$		
	AC		
	$\tan 28^\circ = \frac{BC}{2}$	1 (43-1)	
	20	1 (73-1)	
	$BC \approx 10.63418863$		
	BC = 10.6 m (correct to 3 significant figures)	1* (43-2)	r.t. 10.6 m
		1** (43-3)	

Question	Suggested Answers	Marks	<u> </u>	Notes
Number 44.	The height of the building is approximately 5 times the height of the lamppost. ∴ The height of the building		using or onable	 Answer only, without any working steps or written explanation The explanation is irrelevant or unreasonable Using reasonable estimation
	$\approx (4 \times 5) \text{ m}$ $= 20 \text{ m}$	1 0 Partial evidence of using estimation strategies, but the solution is incomplete or contains mistakes 1 1 Estimate with reasonable justification		strategies, but the solution is incomplete. For instance, only the height of the building is approximately 5 times the height of the lamppost is mentioned The explanation is reasonable, but the answer is outside the acceptable range The explanation is reasonable, but calculation mistakes occurred The answer must be supported by reasonable explanation and within the acceptable range Accept the height of the building be 4.5 times to 5.5 times the height of the lamppost Acceptable range of the height of the building: 18 m to 22 m
45.	$\angle BCA = \angle ECD$ (vert. opp. \angle	∠s)		
(9ME4-46)	$\angle CAB = \angle CDE$ (given)			
	AB = DE (given)			
	$\therefore \triangle ABC \cong \triangle DEC \qquad (AAS)$			
	Conditions			
	(1) Any correct proof with correct r		3	
	(2) Any correct proof with poor presentation, missing reasons or inappropriate reasons			
	(3) Incomplete proof with any one of statement and one corresponding	correct	1	
	(4) Incomplete proof			

Question Number		Suggest	ed Answ	Marks	Notes		
46.				1* (46-1)	Must be all correct		
(9ME2-44)		6 5 3	0 3	4 -3		1 (46-2) 1* (46-3)	In case the data in the above table is incorrect, students can still use the ordered pairs to draw a straight line. The line must pass through (-2, 6) and the range of <i>x</i> must include the values from -2 to 4. Correct graph (include: correct position, use ruler
	-5 -4 -3 -	-2 -1 -1 -2 -3 -4		+ 2y - 6			to draw the line, pass through the 3 correct points and extend two ends of the line) If the table is incomplete but no mistakes are found and the graph is correct, (0, 1, 1) can be given.
47.	(a)						
	Weight (kg)	0 - 2	3 – 5	6 – 8	9 – 11		
	Class mark (kg)	1	4	7	10	1* (47a)	Must be all correct
	Frequency	6	9	27	8		
	(b) The mean = $\frac{1 \times 6 + 4 \times 9 + 7 \times 27 + 10 \times 8}{50}$				1 (47b1)	Correct method	
		= 6.22 k	g	1* (47b2) 1** (47b3)			

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**Mark for Presentation:

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- (4) The Mark for Presentation may include overall work such as mathematical expressions, units, written explanations, use of symbols, etc.

r.t. xxx means "accept answers which can be rounded to xxx".

Steps that may be skipped are shown in shade.

Section A - Sub-paper 4 (9ME4) (1 mark each)

- 1. A (9ME1-2)
- 2. A (9ME2-3)
- 3. C
- 4. A (9ME2-4)
- 5. C (9ME3-5)
- 6. B (9ME3-7)
- 7. D (9ME1-7)
- 8. B
- 9. D
- 10. A
- 11. D
- 12. B
- 13. C
- 14. B
- 15. C
- 16. C (9ME1-16)
- 17. B (9ME1-17)
- 18. A
- 19. D (9ME2-19)
- 20. D (9ME3-20)

Section B - Sub-paper 4 (9ME4)

Question Number	Suggested Answers	Marks	Notes
21.	21	1	
22.	35.486	1	
23. (9ME3-23)	- * + + > -1 0 1	1	
24. (9ME1-24)	$x = \underline{34}$ $y = \underline{55}$	1	Must be all correct
25.	10x + 3	1	
26.	$y^2 - 8y + 15$	1	
27. (9ME3-27)	(1+y)(1-y)	1	
28. (9ME1-28)	approximate solution	1	
29. (9ME3-29)	T = 2(W - 5) / $T = 2W - 10$	1	
30.	$\frac{2015}{2016}$ < $\frac{2016}{2017}$	1	
31.	The circumference of the circle is 12π cm.	1	
32.		1	The cross-section is a rectangle
33.	(a) $x = 45$ (b) $y = 9$	1	Must be all correct No need to consider unit
34.	∠FAC / ∠CAF	1	
35.	The polar coordinates of point A are $(\underline{3},\underline{90^{\circ}})$.	1	Must be all correct and in order
36.	23°	1	r.t. 23° No need to consider unit

9ME4

Question Number	Suggested Answers	Marks	Notes
37.	$(2) \rightarrow (3) \rightarrow (1) \rightarrow (4)$	1	
38.	(a) There are 15 part-time staff at the restaurant.(b) The median of the hourly wages of the	1* (38a)	
	part-time staff is \$\(\frac{43}{} \). (c) Among these 4 part-time cooks, the lowest	1* (38b)	
	hourly wage is \$_58	1* (38c)	
39. (9ME3-39)	The modal class of the numbers of books borrowed is 20 - 29 .	1	

Section C - Sub-paper 4 (9ME4)

Question Number	Suggested Answers	Marks	Notes
40.	The amount = $4650 \times 3 \% \times 2 + 4650$	1 (40-1)	
(9ME1-40)	= \$4929	1* (40-2)	
		1** (40-3)	
41.	The height of the prism		
	$=\frac{240}{30}$	1 (41-1)	
	= 8 cm	1* (41-2)	
		1** (41-3)	
42.	The area of the polygon ABCDEF		
	$= (8-2)\times(7-2)-(8-7)\times(4-2)$	1 (42-1)	Or other correct methods
	= 28 sq. units	1* (42-2)	
		1** (42-3)	
43.	$\therefore \triangle ABC$ is an equilateral triangle,		
(9ME2-42)	$x = 60^{\circ}$	1* (43-1)	
	$x + y = 180^{\circ}$	1 (43-2)	
	$60^{\circ} + y = 180^{\circ}$		
	$y = 120^{\circ}$	1* (43-3)	
		1** (43-4)	

Question Number	Suggested Answers	Marks	Notes
44. (9ME1-44)		1* (44-1)	Must be all correct
	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1* (44-3)	In case the data in the above table is incorrect, students can still use the ordered pairs to draw a straight line. The line must pass through (-2, 6) and the range of <i>x</i> must include the values from -2 to 4. Correct graph (include: correct position, use ruler to draw the line, pass through the 3 correct points and extend two ends of the line) If the table is incomplete but no mistakes are found and the graph is correct, (0, 1, 1) can be given.

Question						
Number	Suggested Answers	Marks	S	Notes		
45.	The number of seats provided by the theatre $= 22 \times 41$ $\geq 20 \times 40$ $= 800$	o 0 No evidence of using estimation strategies nor giving reasonable justification 1 0 Partial evidence of using estimation strategies, but the solution is incomplete or contains errors		 Exact calculation only The estimate is given only after exact calculation Use wrong methods to get the approximations for the underlined values 		
	∴ The theatre has enough seats for 800 people.			 Approximate the underlined values correctly, but the number of seats provided by the theatre is omitted or wrongly estimated Estimate the number of seats provided by the theatre correctly, but the conclusion is omitted or wrong Correct method used, but errors occurred 		
		1 1 Estimate with reasonable justification		 No need to consider unit/presentation The conclusion must be correct and aligned with a reasonable explanation 		
46.	$\angle BCA = \angle ECD$ (vert. opp. \angle s)					
(9ME3-45)	$\angle CAB = \angle CDE$ (given)					
	AB = DE (given)					
	$\therefore \triangle ABC \cong \triangle DEC \qquad (AAS)$					
	Conditions:					
	(1) Any correct proof with correct reaso		3			
	(2) Any correct proof with poor presenta missing reasons or inappropriate reasons		2			
	(3) Incomplete proof with any one correstatement and one corresponding rea	ect	1			
	(4) Incomplete proof					

Question Number			Suggested Ans	wers		Marks	Notes
	Frequency (q)	Capacities (mL) 200 - 290 300 - 390 400 - 490 500 - 590	Class boundaries (mL) 195 – 295 295 – 395 395 – 495 495 – 595 Capacities of the company of	Class mark (mL) 245 345 445 545	3 6 7 4	Marks 1* (47a1) 1* (47a2) 1* (47b)	Correct histogram (No marks will be given if any charts other than histogram are shown)
		1 1 195	245 295 345 39 Capacit :		545 595		