Education Bureau
Territory-wide System Assessment 2008
Secondary 3 Mathematics
Marking Scheme

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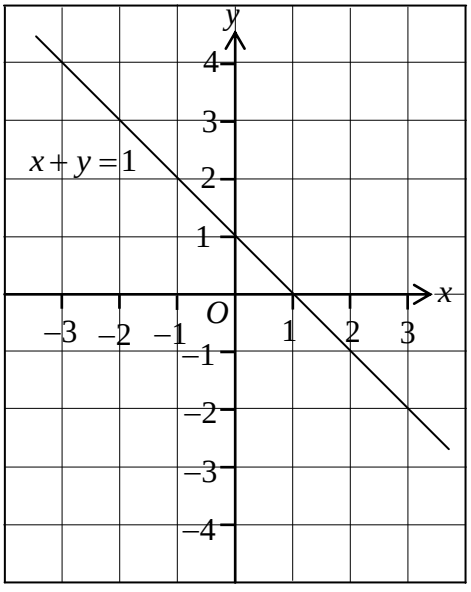
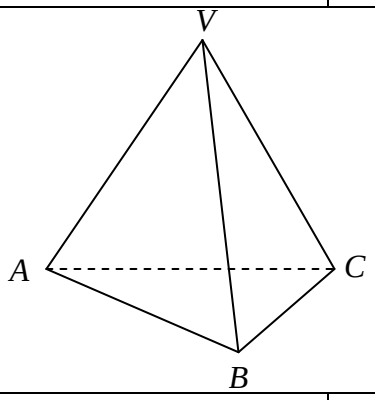
Alternative suggested answers are shown in boxes.

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

1. D (9MC2-1)
2. C (9MC2-2)
3. D (9MC4-2)
4. D
5. C
6. D
7. C
8. A
9. B (9MC4-9)
10. D
11. C
12. A (9MC2-11)
13. D (9MC2-12)
14. B
15. D
16. B
17. B
18. A
19. B
20. B

Section B – Sub-paper 1 (9ME1)

Question Number	Suggested Answers	Notes	Marks
21. (i) (ii) (9ME2-21)	1000 -3000	All must be correct	1
22. (9ME2-22)	$-2, 0, 1$	All correct and in order	1
23.	2.35×10^{-8}		1
24. (i) (ii) (9ME4-22)	Ratio Rate	All must be correct	1
25.	20		1
26.	16		1
27.	$2n$		1
28.	-7		1
29.	$-7x^2-2x$	Expansion	1
30.	$(x+1)(x+2)(x+3)$	Factorization	1
31.	$(x-3)(x+2)$	Factorization	1
32. (9ME2-31)	$(3x+2)(x+1)$	Factorization	1
33. (9ME2-32)	$x-\frac{1}{3}x+33=93$	Equation	1
34. (9ME4-31)			1

35.	$\frac{25x}{6y}$	Simplified rational expression	1
36.	804.2	804.247719 rounded to 804.2	1
37.			1
38.	Similar, AAA	All must be correct	1
39. (9ME4-37)	20		1
40.	72		1
41.	*BD*	*DB* is accepted	1
42. (9ME2-41)	80		1
43. (9ME2-42)	2, 180°	All correct and in order	1
44. (9ME4-41)	24		1
45.	2 → 3 → 4 → 1		1
46.	75		1
47.	73.5		1
48.	$\frac{3}{8}$		1

Section C – Sub-paper 1 (9ME1)

Question Number	Suggested Answers	Marks	Notes
49. (9ME2-47)	Total cost $= \$149.3 \times 2 + \$84 \times 2 + \$69 \times 3$ $\approx \$150 \times 2 + \$100 \times 2 + \$70 \times 3$ $= \$300 + \$200 + \$210$ $= \$710$ or ∵ Round up \$149.3, \$84.0 and \$69.0 respectively as \$150, \$100 and \$70. ∴ Total cost ≈ \$710	1_{49-1} 1_{49-2} 1_{49-1} 1_{49-2}	Or other reasonable estimation method Estimated value (must have method shown) Or other reasonable estimation method Estimated value (must have method shown)
50. (9ME2-48)	Amount $= \$\ 30\ 000\ (\ 1 + 4\ \%\ )^{\ 2}$ $= \$\ 32\ 448$ Interest $= \$\ (\ 32\ 448 - 30\ 000\ )$ $= \$\ 2\ 448$ The total interest is \$ 2 448.	1_{50-1} 1_{50-2} 1^*_{50-3} 1^{**}_{50-4}	Or other correct method Method (Subtract principal from amount) (50-2 method may be skipped) Units / presentation
51. (9ME4-47)	The amount received by Mr Chan is $= \frac{¥90}{HK\$100} \times HK\$\,4\,000$ $= ¥\ 3\ 600$	1_{51-1} 1^*_{51-2} 1^{**}_{51-3}	Or other correct method Units / presentation
52. (9ME3-50)	$12^2 = 0^2 + 2(3)s$ $144 = 6s$ $s = 24$	1_{52-1} 1^*_{52-2}	Substitute correct value into correct formula

<table>
<tr><td>53.</td><td>Curved surface area= $\pi(6)(10)\ \text{cm}^2$
$= 60\ \pi\ \text{cm}^2$
Total surface area of the cone
$= [\ 60\ \pi + \pi(6)^2\ ]\ \text{cm}^2$
$= 96\ \pi\ \text{cm}^2$
The total surface area of the cone is $96\ \pi\ \text{cm}^2$ 。</td><td>$1_{53\text{-}1}$

$1^*_{53\text{-}2}$

$1^{**}_{53\text{-}3}$</td><td>(may be skipped)

Units / presentation</td></tr>
<tr><td>54.</td><td>$\angle ABC = 30°$

$\angle ADB = \dfrac{180° - 20° - 30°}{2}$
$= 65°$</td><td>$1_{54\text{-}1}$

$1_{54\text{-}2}$

$1^*_{54\text{-}3}$</td><td>(may be skipped)

Or other correct method</td></tr>
<tr><td>55.</td><td>Steps / Justifications
$AB = AD$ (given)
$AC = AE$ (given)
$\angle BAC = \angle DAE$ (common angle)
$\therefore \Delta ABC \cong \Delta ADE$ (SAS)</td><td>$1_{55\text{-}1}$

$1_{55\text{-}2}$

$1_{55\text{-}3}$</td><td>Correct steps

Correct justifications (with correct steps)
Correct conclusion (with correct steps)</td></tr>
<tr><td>56.
(9ME3-56)</td><td>Table 1
<table>
<tr><th>Time needed (mins)</th><th>Frequency</th></tr>
<tr><td>1 – 10</td><td>3</td></tr>
<tr><td>11 – 20</td><td>1</td></tr>
<tr><td>21 – 30</td><td>5</td></tr>
<tr><td>31 – 40</td><td>5</td></tr>
<tr><td>41 – 50</td><td>2</td></tr>
<tr><td>51 – 60</td><td>4</td></tr>
</table>
Table 2
<table>
<tr><th>Time needed (mins)</th><th>Frequency</th></tr>
<tr><td>1 – 15</td><td>4</td></tr>
<tr><td>16 – 30</td><td>5</td></tr>
<tr><td>31 – 45</td><td>6</td></tr>
<tr><td>46 – 60</td><td>5</td></tr>
</table></td><td>$1_{56\text{-}1}$

$1_{56\text{-}2}$</td><td>All must be correct

All must be correct</td></tr>
</table>

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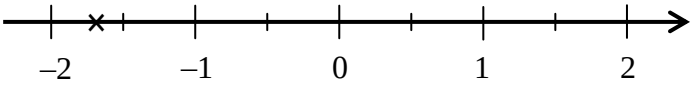
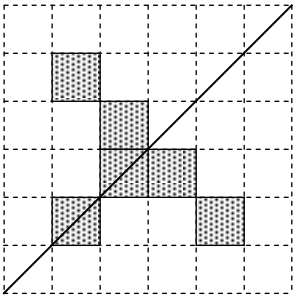
Alternative suggested answers are shown in boxes.

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

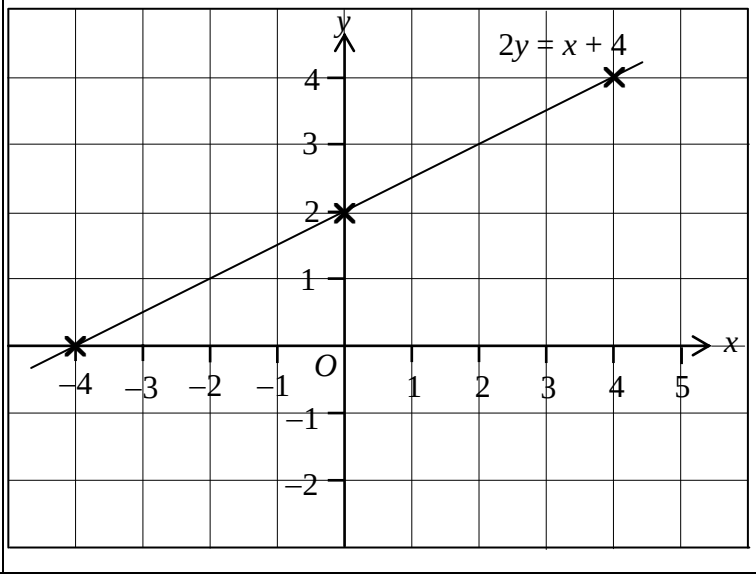
1. D (9MC1-1)
2. C (9MC1-2)
3. D (9MC3-2)
4. B (9MC3-3)
5. C (9MC4-4)
6. B
7. B
8. C
9. B
10. C
11. A (9MC1-12)
12. D (9MC1-13)
13. A (9MC3-13)
14. C (9MC3-14)
15. B (9MC4-13)
16. A
17. A
18. A
19. C
20. B

Section B – Sub-paper 2 (9ME2)

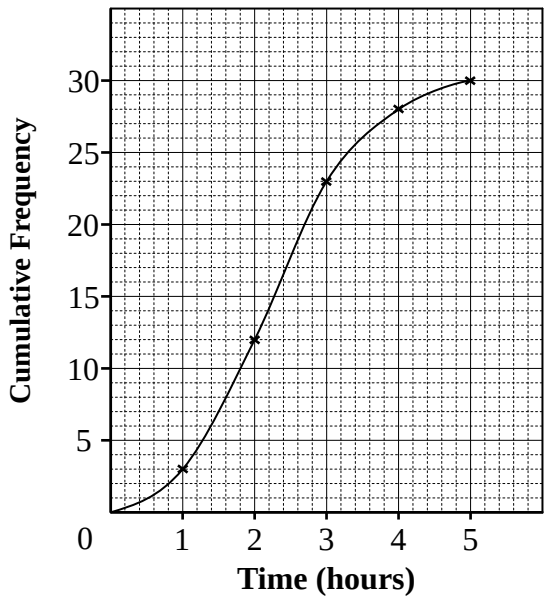
Question Number	Suggested Answers	Notes	Marks
21. (i) (ii) (9ME1-21)	1000 -3000	All must be correct	1
22. (9ME1-22)	-2 , 0, 1	All correct and in order	1
23. (9ME3-22)			1
24. (9ME3-23)	2000		1
25. (9ME4-24)	4 : 5		1
26.	5		1
27.	120		1
28.	$-2+4a-5a^2+3a^3$	Ascending order of powers of a	1
29.	$2x^4+8x^2-6x$	Expansion	1
30.	$3cd(d-3c)$	Factorization	1
31. (9ME1-32)	$(3x+2)(x+1)$	Factorization	1
32. (9ME1-33)	$x-\frac{1}{3}x+33=93$	Equation	1
33. (9ME3-32)	Q,S	All must be correct	1
34. (9ME3-33)	$4x^2-25y^2$	Expansion	1

35. (i) (ii) (9ME4-33)	> <	All must be correct	1
36.	*AB* or *CB*	One of the answers suffices (*BA* or *BC* are accepted)	1
37.		Enough to show symmetry	1
38.	50		1
39.	35		1
40.	100		1
41. (9ME1-42)	80		1
42. (9ME1-43)	2, 180°	All correct and in order	1
43. (9ME3-42)	5		1
44. (9ME3-43)	70.5	70.528779 rounded to 70.5	1
45. (a)	20		1_{45a}
(b)	2		1_{45b}
(c) (9ME4-43)	58		1_{45c}
46.	55.8		1

Section C – Sub-paper 2 (9ME2)

Question Number	Suggested Answers	Marks	Notes
47. (9ME1-49)	Total cost = \$149.3 × 2 + \$84 × 2 + \$69 × 3 ≈ \$150 × 2 + \$100 × 2 + \$70 × 3 = \$300 + \$200 + \$210 = \$710 or ∵Round up \$149.3, \$84.0 and \$69.0 respectively as \$150, \$100 and \$70. ∴ Total cost ≈ \$710	1_{47-1} 1_{47-2} 1_{47-1} 1_{47-2}	Or other reasonable estimation method Estimated value (must have method shown) Or other reasonable estimation method Estimated value (must have method shown)
48. (9ME1-50)	Amount = \$ 30 000 (1 + 4 %) ^{2} = \$ 32 448 Interest = \$ (32 448 – 30 000) = \$ 2 448 The total interest is \$ 2 448.	1_{48-1} 1_{48-2} 1^*_{48-3} 1^{**}_{48-4}	Or other correct method Method (Subtract principal from amount) (48-2 method may be skipped) Units / presentation
49. (9ME3-48)	<table><tr><td>x</td><td>–4</td><td>0</td><td>4</td></tr><tr><td>y</td><td>0</td><td>2</td><td>4</td></tr></table> 	1_{49-1} 1_{49-2}	All must be correct Method: straight line passing through the points in table

50. (9ME3-49)	$\begin{cases} 2x+5y=9 & \cdots(1) \\ 3x-4y=2 & \cdots(2) \end{cases}$ $(1)\times 3:\ \begin{cases} 6x+15y=27 & \cdots(3) \\ (2)\times 2:\ 6x-8y=4 & \cdots(4) \end{cases}$ $(3)-(4)$, $23y=23$ $y=1$ Substitute $y=1$ into (2), $3x-4(1)=2$ $x=2$ $\therefore\ x=2$ and $y=1$	$1_{50\text{-}1}$ $1^*_{50\text{-}2}$ $1_{50\text{-}3}$	Method (Other methods are accepted: Elimination of y or substitution) First correct root ($y=1$ or $x=2$) Use the value of the first root to find the value of second root

51. (9ME3-52)	$1\,960\,\pi = \pi r^2\,(10)$ $r = 14$	$1_{51\text{-}1}$ $1^*_{51\text{-}2}$	Substitute correct value into formula
52. (9ME4-51)	Steps / Justifications $\frac{AC}{EC} = \frac{BC}{DC} = \frac{1}{2}$ $\angle ACB = \angle ECD$ (Vert. Opp. $\angle$s) $\therefore \Delta ABC \sim \Delta EDC$ (Ratio of two sides incl. $\angle$s)	$1_{52\text{-}1}$ $1_{52\text{-}2}$ $1_{52\text{-}3}$	Correct steps Correct Justifications (with correct steps) Correct conclusion (with correct steps)
53.	(a) $AC =$ 4 (b) ΔBDC is a right-angled triangle. $BC^2 + BD^2 = 5^2 + 12^2 = 169$ $CD^2 = 13^2 = 169$ $\therefore BC^2 + BD^2 = CD^2$ According to the converse of Pythagoras Theorem, $\angle CBD$ is a right angle. Hence, ΔBDC is a right-angled triangle.	1_{53a} $1_{53b\text{-}1}$ $1_{53b\text{-}2}$	Must have explanation Reasonable explanation
54. (9ME4-53)	**Time taken by 30 students to do their projects**  	$1_{54\text{-}1}$ $1_{54\text{-}2}$ $1_{54\text{-}3}$	Correct y coordinates (with respect to x coordinates) Curve passing through at least 2 correct y coordinates All correct

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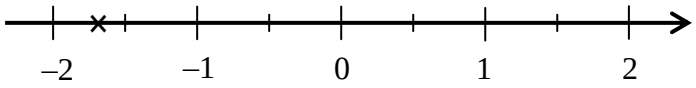
Section A – Sub-paper 3 (9ME3) (1 mark each)

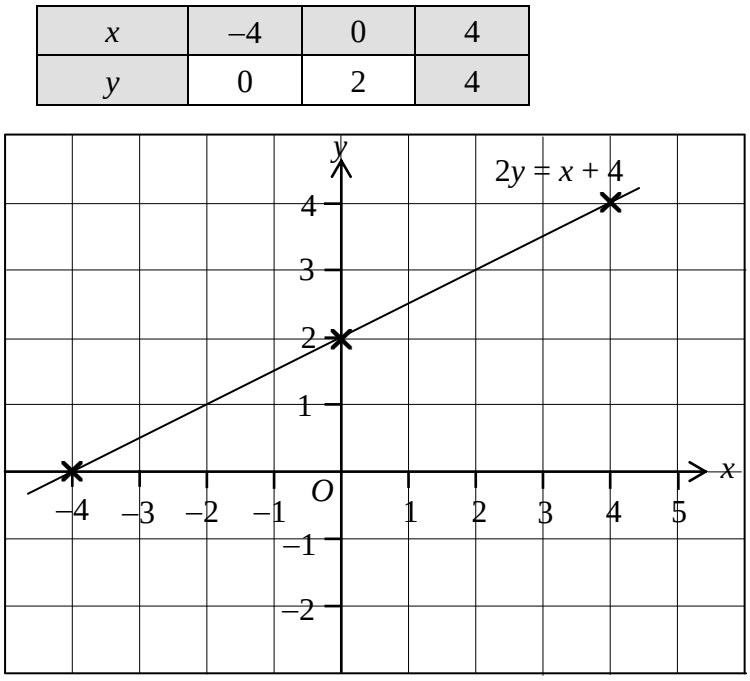
1. B
2. D (9MC2-3)
3. B (9MC2-4)
4. B
5. C (9MC4-5)
6. B
7. B
8. C
9. D
10. D
11. B
12. C (9MC4-11)
13. A (9MC2-13)
14. C (9MC2-14)
15. C
16. B
17. B
18. C
19. C (9MC4-19)
20. A

Section B – Sub-paper 3 (9ME3)

Question Number	Suggested Answers	Notes	Marks
21.	2		1
22. (9ME2-23)			1
23. (9ME2-24)	2000		1
24.	15		1
25. (9ME4-25)	$\frac{50x-5}{9}$	Or equivalent polynomial	1
26.	$x+y=3x$	Equation	1
27.	2, 9	All correct and in order	1
28.	$3m-5m^2$	Simplified polynomial	1
29.	y^2-3y+2	Expansion	1
30.	$(a+b)(x+2)$	Factorization	1
31.	-1		1
32. (9ME2-33)	Q,S	All must be correct	1
33. (9ME2-34)	$4x^2-25y^2$	Expansion	1

34.	$x \geq -1$		1
35. (9ME4-34)	$x > -10$		1
36.	*ABEF* or *BCDE*	One of the answers suffices (*BEFA*, *CDEB*, etc are accepted)	1
37.	2		1
38.	7		1
39.	75		1
40.	*BGED*	*GEDB*, etc are accepted	1
41.	-3 , 1	All correct and in order	1
42. (9ME2-43)	5		1
43. (9ME2-44)	70.5	70.528779 rounded to 70.5	1
44. (a)	60		1_{44a}
(b)	30		1_{44b}
45. (9ME4-44)	28		1
46.	16		1

Section C – Sub-paper 3 (9ME3)

Question Number	Suggested Answers	Marks	Notes
47.	The estimate of John is not reasonable. The height of a pack of paper should not be under-estimated. or 60 cm ÷ 5.4 cm < 60 cm ÷ 5 cm = 12 Fewer than 12 packs of paper can be placed in the drawer.	$1_{47\text{-}1}$ $1^*_{47\text{-}2}$ $1^*_{47\text{-}2}$	Must have explanation Reasonable explanation Reasonable explanation
48. (9ME2-49)		$1_{48\text{-}1}$ $1_{48\text{-}2}$	All must be correct Method: straight line passing through the points in table

49. (9ME2-50)	$\begin{cases} 2x+5y=9 & \cdots(1) \\ 3x-4y=2 & \cdots(2) \end{cases}$ $(1)\times 3:\ \begin{cases} 6x+15y=27 & \cdots(3) \\ (2)\times 2:\ 6x-8y=4 & \cdots(4) \end{cases}$ $(3)-(4)$, $23y=23$ $y=1$ Substitute $y=1$ into (2), $3x-4(1)=2$ $x=2$ $\therefore\ x=2$ and $y=1$	$1_{49\text{-}1}$ $1^*_{49\text{-}2}$ $1_{49\text{-}3}$	Method (Other methods are accepted: Elimination of y or substitution) First correct root ($y=1$ or $x=2$) Use the value of the first root to find the value of second root
50. (9ME1-52)	$12^2=0^2+2(3)s$ $144=6s$ $s=24$	$1_{50\text{-}1}$ $1^*_{50\text{-}2}$	Substitute correct value into correct formula
51. (9ME4-49)	(a) 28 (b) The area of the island is approximately the area of 7 squares.	1_{51a} 1_{51b}	Range: 24 to 32 Reasonable explanation Other examples such as: Area of island $\approx 7\times 4\ \text{km}^2 = 28\ \text{km}^2$

<table>
<tr><td>52.
(9ME2-51)</td><td>1 960 $\pi = \pi r^2$ (10)

$r = 14$</td><td>$1_{52\text{-}1}$

$1^*_{52\text{-}2}$</td><td>Substitute correct value into formula</td></tr>
<tr><td>53.
(9ME4-50)</td><td>The area of the signboard is
$= [\pi(1.4)^2 \times \frac{300°}{360°}]$ m^2

$= 5.1$ m^2</td><td>$1_{53\text{-}1}$

$1^*_{53\text{-}2}$
$1^{**}_{53\text{-}3}$</td><td>

5.131268 rounded to 5.1
Units / presentation</td></tr>
<tr><td>54.</td><td>Steps / Justifications
$\angle BCE = \angle ABC = 65°$ (Alt. $\angle$s AB // CF)
$\angle BCE = \angle DEF$
$\therefore$ BC // DE (Corr. $\angle$s equal)</td><td>$1_{54\text{-}1}$
$1_{54\text{-}2}$
$1_{54\text{-}3}$</td><td>Correct steps
Correct Justifications (with correct steps)
Correct conclusion (with correct steps)</td></tr>
<tr><td>55.</td><td>$x + 50 + 90 = 180$
$x = 40$</td><td>$1_{55\text{-}1}$
$1^*_{55\text{-}2}$</td><td>Or other correct methods</td></tr>
<tr><td>56.
(9ME1-56)</td><td>Table 1
<table>
<tr><th>Time taken (mins)</th><th>Frequency</th></tr>
<tr><td>1 – 10</td><td>3</td></tr>
<tr><td>11 – 20</td><td>1</td></tr>
<tr><td>21 – 30</td><td>5</td></tr>
<tr><td>31 – 40</td><td>5</td></tr>
<tr><td>41 – 50</td><td>2</td></tr>
<tr><td>51 – 60</td><td>4</td></tr>
</table>
Table 2
<table>
<tr><th>Time taken (mins)</th><th>Frequency</th></tr>
<tr><td>1 – 15</td><td>4</td></tr>
<tr><td>16 – 30</td><td>5</td></tr>
<tr><td>31 – 45</td><td>6</td></tr>
<tr><td>46 – 60</td><td>5</td></tr>
</table></td><td>$1_{56\text{-}1}$

$1_{56\text{-}2}$</td><td>All must be correct

All must be correct</td></tr>
</table>

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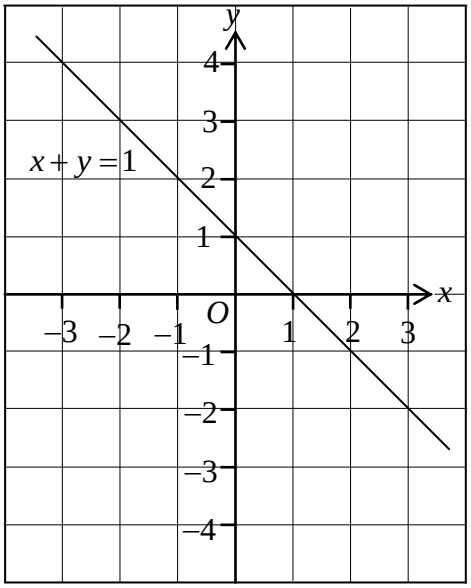
Section A – Sub-paper 4 (9ME4) (1 mark each)

1. B
2. D (9MC1-3)
3. C
4. C (9MC2-5)
5. C (9MC3-5)
6. B
7. A
8. C
9. B (9MC1-9)
10. D
11. C (9MC3-12)
12. C
13. B (9MC2-15)
14. A
15. C
16. A
17. D
18. A
19. C (9MC3-19)
20. B

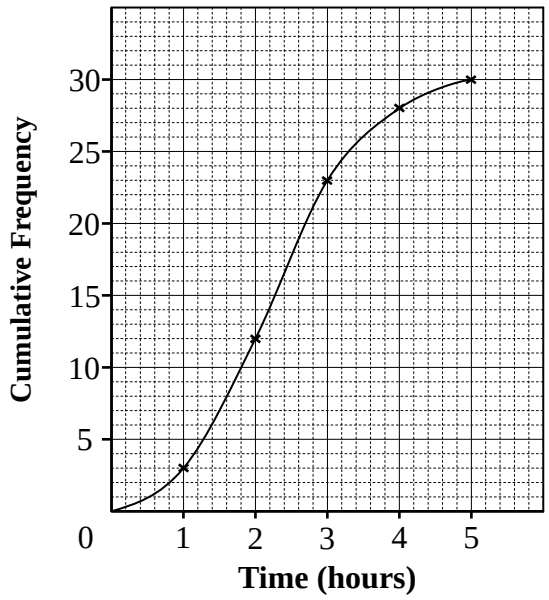
Section B – Sub-paper 4 (9ME4)

Question Number	Suggested Answers	Notes	Marks
21. (i) (ii)	Exact value Estimated value	All must be correct	1
22. (9ME1-23)	2.35×10^{-8}		1
23.	2	"Two" is accepted	1
24. (9ME2-25)	$4:5$		1
25. (9ME3-25)	$\frac{50x-5}{9}$	Or equivalent polynomial	1
26.	-2		1
27.	$3x-y$	Simplified polynomial	1
28.	m^6n^4	Simplified rational expression	1
29.	$(2+3y)(2-3y)$	Factorization	1
30.	$x=-3$	Or -3	1
31. (9ME1-34)			1
32.	$4x^2-4xy+y^2$	Expansion	1
33. (i) (ii) (9ME2-35)	> <	All must be correct	1

34. (9ME3-35)	$x > -10$		1
35.	B , D	All must be correct	1
36.	A , C	All must be correct	1
37. (9ME1-39)	20		1
38.	58		1
39.	$\angle AED$ or $\angle BFC$	One of the answers suffices ($\angle DEA$ or $\angle CFB$ are accepted)	1
40.	3 , 0	All correct and in order	1
41. (9ME1-44)	24		1
42.	3.8	3.8302222 rounded to 3.8	1
43. (a)	20		1_{43a}
(b)	2		1_{43b}
(c) (9ME2-45)	58		1_{43c}
44. (9ME3-45)	28		1
45.	\$10001 – \$11000		1

Section C – Sub-paper 4 (9ME4)

Question Number	Suggested Answers	Marks	Notes
46.	The present value of the watch = \$50 000 × (1 + 10%)^3 = \$66 550	$1_{46\text{-}1}$ $1^*_{46\text{-}2}$ $1^{**}_{46\text{-}3}$	Or other correct method Units / presentation
47. (9ME1-51)	The amount received by Mr Chan is = $\frac{¥90}{HK\$100} \times HK\$\,4\,000$ = ¥ 3 600	$1_{47\text{-}1}$ $1^*_{47\text{-}2}$ $1^{**}_{47\text{-}3}$	Or other correct method Units / presentation
48.	(a) $l = \frac{P}{2} - w$ or $l = \frac{P-2w}{2}$ (b) $l = \frac{18-2(3)}{2}$ $= 6$ or $18 = 2(l + 3)$ $l = \frac{18}{2} - 3$ $= 6$	$1_{48\text{-}1}$ $1_{48\text{-}2}$ $1^*_{48\text{-}3}$ $1_{48\text{-}2}$ $1^*_{48\text{-}3}$	 Substitute values into formula found in (a) Substitute values into original formula
49. (9ME3-51)	(a) 28 (b) The area of the island is approximately the area of 7 squares.	1_{49a} 1_{49b}	Range: 24 to 32 Reasonable explanation Other examples such as: Area of island $\approx 7 \times 4\ km^2 = 28\ km^2$

50. (9ME3-53)	The area of the signboard is $= [\pi(1.4)^2 \times \frac{300°}{360°}]\ \text{m}^2$ $= 5.1\ \text{m}^2$	$1_{50\text{-}1}$ $1^*_{50\text{-}2}$ $1^{**}_{50\text{-}3}$	 5.131268 rounded to 5.1 Units / presentation
51. (9ME2-52)	Steps / Justifications $\frac{AC}{EC} = \frac{BC}{DC} = \frac{1}{2}$; $\angle ACB = \angle ECD$ (Vert. Opp. $\angle$s) $\therefore \Delta ABC \sim \Delta EDC$ (Ratio of two sides incl. $\angle$s)	$1_{51\text{-}1}$ $1_{51\text{-}2}$ $1_{51\text{-}3}$	Correct steps Correct Justifications (with correct steps) Correct conclusion (with correct steps)
52.	(a) $\tan\theta = \frac{1}{5}$ $\theta = 11°$ (b) 111°	$1_{52a\text{-}1}$ $1^*_{52a\text{-}2}$ 1_{52b} $1^{**}_{52\text{-}4}$	Method (11.309932 rounded to 11) Use value of θ in (a) and add 100° (a) and (b): Units / presentation
53. (9ME2-54)	**Time taken by 30 students to do their projects**  	$1_{53\text{-}1}$ $1_{53\text{-}2}$ $1_{53\text{-}3}$	Correct y coordinates（with respect to x coordinates） Curve passing through at least 2 correct y coordinates All correct