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.
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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 1 (9ME1) (1 mark each)

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

Section B - Sub-paper 1 (9ME1)

Question Number	Suggested Answers	Marks	Notes
21.	$3^2 \times 5$	1	
22.	 (i) +1/1 hour(s) represents that the local time in Seoul is 1 hour ahead of the local time in Hong Kong. (ii) -12 hour(s) represents that the local time in New York is 12 hours behind the local time in Hong Kong. 	1	Must be all correct
23.	$a = \underline{512}$	1	
24. (9ME2-26)	x = 3	1	
25.	(i) Direct proportion (ii) Inverse proportion	1	Must be all correct
26. (9ME4-29)	$(x+6)^2$	1	
27. (9ME4-27)	$x^2 + 4x - 5$	1	
28.	(x-1)(x-6)	1	
29. (9ME4-30)	$\frac{5}{2x}$	1	
30. (9ME4-31)	x < -7	1	
31.		1	
32.	$x = \underline{65^{\circ}}$	1	No need to consider unit
33.	$x = \underline{55^{\circ}}$	1	No need to consider unit
34.	(a) $x =$	1	Must be all correct No need to consider unit
35.	Q and R	1	Must be all correct
36.	x = <u>34.7</u>	1	r.t. 34.7 No need to consider unit

Question Number	Suggested Answers	Marks	Notes
37. (9ME2-37)	(a)		
	Time (minutes) 31 - 40 41 - 50 51 - 60 61 - 70 71 - 80 81 - 90		
	Frequency 4 8 17 24 21 26	1 (37a)	No need to
	(b) The total number of Secondary 3 students in the school is 100 .	1 (37b)	consider unit
	(c) The number of Secondary 3 students joining the activity is	1 (0-)	
	<u>71</u> .	1 (37c)	
38. (9ME2-39)	$Mean = \underline{10}$	1 (38-1)	
	$Median = \underline{12}$	1 (38-2)	
39.	The required relative frequency = $\frac{3}{5}$	1	Or 0.6

Section C - Sub-paper 1 (9ME1)

Question Number	Suggested Answers	Marks	Notes
40.	Interest $= \$5 720 \times 3\% \times 5$ $= \$858$ The number of infected people	1 (40-1) 1* (40-2) 1** (40-3)	
	$= 2\ 000 \times (1 - 30\%)^{3}$ $= 686$ or $2\ 000 \times 0.7 = 1\ 400$ $1\ 400 \times 0.7 = 980$ $980 \times 0.7 = 686$ The number of inflected people is 686.	1 (41-1) 1* (41-2) 1** (41-3) 1 (41-1) 1* (41-2) 1** (41-3)	Correct method (multiply 0.7 three times)
42. (9ME4-41)	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1* (42-1)	Must be all correct
	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	1 (42-2) 1* (42-3)	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 (0, 1) and the range of <i>x</i> must include the values from –3 to 2. 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	Suggested Answers	Marks	Notes
Number			
43.	(a) $x^{-4} \cdot x^{6}$		
	$= x^{-4+6}$	4.46	
	$=x^2$	1* (43a)	
	(b) $(x^{-4} \cdot x^6)^5$		
	$=(x^2)^5$		
	$=x^{2\times5}$	1 (43b1)	using $(a^m)^n = a^{mn}$
	$=x^{10}$	1* (43b2)	Correct answer
			(getting marks 1 1*)
44.	$\angle CDF + 86^{\circ} + 64^{\circ} = 180^{\circ} (\angle \text{ sum of } \triangle)$		
	∠ <i>CDF</i> = 30°		
	$\therefore \angle ABD = \angle CDF = 30^{\circ}$		Or other correct proofs
	$\therefore AB // CD$ (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	
45.			
(9ME4-44)	$AB = \sqrt{2.4^2 + 7^2}$	1 (45-1)	
	= 7.4 cm		
	The perimeter of the rhombus		
	$=4\times7.4$		
	= 29.6 cm	1* (45-2)	
		1** (45-3)	
46.	The area of $\triangle ABC$		
(9ME4-45)	$=\frac{[2-(-4)]\times(6-1)}{2}$	1 (46-1)	Or other correct methods
		1 %	
	= 15 sq. units	1* (46-2)	
		1** (46-3)	

Question Number	Suggested Answers	Marks	Notes
47.	The number of half of the types of drinks is 4. There are only 2 types of drinks pricing \$18 or more. Therefore, it is not true that over half of the	0 0	 Without any reasonable explanation Conclusion is incorrect
	types of drinks are \$18 or more. or The number of half of the types of drinks is 4.	1 0	 Explanation is reasonable but incomplete Explanation is reasonable but no conclusion is drawn
	There are 6 types of drinks pricing less than \$18. Therefore, it is not true that over half of the types of drinks are \$18 or more.	1 1	Explanation supported by data is reasonable and the conclusion is correct
	∴ I disagree with the customer's claim.		

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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 2 (9ME2) (1 mark each)

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

Section B - Sub-paper 2 (9ME2)

Question Number	Suggested Answers	Marks	Notes
21. (9МЕЗ-21)	36	1	
22. (9ME3-22)	-3	1	
23.	12	1	
24.	The electricity consumption of the company is 969 kWh this month.	1	No need to consider unit
25.	$x = \underline{36}$	1	
26. (9ME1-24)	$x = \underline{3}$	1	
27.	The coefficient of x^2 is $_{-7}$.	1	
28.	(x+y)(5-a) / $(5-a)(x+y)$	1	
29. (9ME3-27)	$y^2 - 8y + 16$	1	
30.	2x	1	
31.	y = 5(w - k) / y = 5w - 5k	1	
32.	Solid R	1	
33.	The volume of the prism is540 cm ³ .	1	No need to consider unit
34.	$x = \underline{125^{\circ}}$	1	No need to consider unit
35. (9ME3-33)	x =40°	1	No need to consider unit
36.	The angle of elevation of Q from P is 42° .	1	No need to consider unit

Question Number	Suggested Answers				Marks	Notes		
37. (9МЕ1-37)	(a) Time (minutes) 31 - 40 41 - 50 51 - 60 61 - 70 71 - 80 81 - 90 Frequency 4 8 17 24 21 26 (b) The total number of Secondary 3 students in the school is						1(37a)	No need to consider unit
							1(37b) 1(37c)	
38.	In 2021 and 2022, the average relative humidity in <u>March</u> is the same.						1	
39. (9ME1-38)	Mean = 10 Median = 12	-					1 (39-1) 1 (39-2)	

Section C - Sub-paper 2 (9ME2)

Suggested Answers	Marks	Notes
The total calorie intake = 381 + 532 + 1 706 > 300 + 500 + 1 700 = 2 500 calories ∴ Mr Chan's calorie intake today is over the standard.	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 The estimate is given only after exact calculation Use wrong methods to get the approximation for the calories of each value Estimate the calorie of each value correctly, but the total calorie intake is omitted or wrongly estimated Estimate the total calorie intake correctly, but the conclusion is omitted or wrong
The number of facemasks for each person $= \frac{4 \times 15}{6}$ $= 10$	1 1 Estimate with reasonable justification 1 (41-1) 1* (41-2) 1** (41-3)	 Correct method used, but errors occurred No need to consider unit/presentation The conclusion must be correct and aligned with a reasonable explanation
	The total calorie intake = 381 + 532 + 1 706 > 300 + 500 + 1 700 = 2 500 calories ∴Mr Chan's calorie intake today is over the standard. The number of facemasks for each person = $\frac{4 \times 15}{6}$	The total calorie intake $= 381 + 532 + 1706$ $> 300 + 500 + 1700$ $= 2500 \text{ calories}$ $\therefore \text{Mr Chan's calorie intake today is } \mathbf{over} \text{ the standard.}$ $1 0$ Partial evidence of using estimation strategies nor giving reasonable justification $1 1 0$ Partial evidence of using estimation strategies, but the solution is incomplete or contains errors $1 1 1$ Estimate with reasonable justification $1 1 1$ Estimate or contains errors $1 1 1$ Estimate or contains errors $1 1 1$ $1 1$

Question Number	Suggested Answers	Marks	Notes
42. (9ME3-42)	$\begin{cases} y = 3x + 8 & \dots (1) \\ x + y = 4 & \dots (2) \end{cases}$		
	Substitute (1) into (2),		
	x + 3x + 8 = 4 $4x = -4$	1 (42-1)	Correct method (eliminating one of the variables)
	x = -1	1* (42-2)	Correct value of x (or y)
	Substitute $x = -1$ into (1),	. ,	
	y = 3(-1) + 8	1 (42-3)	Correct method
	y = 5	1* (42-4)	Both values are correct
43. (9ME3-43)	$x = 2\pi (4) \times \frac{95^{\circ}}{360^{\circ}}$	1 (43-1)	
	≈ 6.632251		
	= 6.63 cm (corr. to 3 sig. fig.)	1* (43-2)	r.t. 6.63 cm
		1** (43-3)	
44.	The volume of Ball <i>B</i>		
	$= 2700 \times \left(\frac{1}{3}\right)^3$	1 (44-1)	
	$= 100 \text{ cm}^3$	1* (44-2)	
		1** (44-3)	

Question Number	Suggested Answers	Marks	Notes
45.	$\angle ACB = 180^{\circ} - 50^{\circ} - 65^{\circ} = 65^{\circ} (\angle \text{ sum of } \triangle)$ $\therefore \angle CAB = \angle ACB = 65^{\circ}$ $\therefore BA = BC$ (sides opp. eq. $\angle s$) $\therefore \triangle BCA$ is an isosceles triangle		Or other correct proofs
	Conditions		
	(1) Any correct proof with correct reasons	3	
	(2) Any correct proof with poor presentation, missing reasons or inappropriate reasons	2	
	(3) Incomplete proof with any one correct statement and one corresponding reason	1	
	(4) Incomplete proof	0	
46.	$\tan \angle ACB = \frac{AB}{BC}$	1 (46-1)	
	$\tan \angle ACB = \frac{5}{3}$ $\angle ACB \approx 59.03624347^{\circ}$		
	$\angle ACB = 59.0^{\circ}$ (correct to 3 sig. fig.)	1* (46-2)	r.t. 59.0°
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1** (46-3)	
47.		1 (47-1)	Correct data of the leave in
	Number of absentees in the last 15 school days		each row (no need to consider
	Stem (10) Leaf (1)		the order)
	0 7 8 9		
	1 2 4 5 5 7 8	1* (47-2)	All correct (including the
	2 0 2 5		distances between data, the
	3 0 6		order of the data and no
	4 2		commas between the data)

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

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

Section B - Sub-paper 3 (9ME3)

Question Number	Suggested Answers	Marks	Notes
21. (9ME2-21)	36	1	
22. (9ME2-22)	- 3	1	
23.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	(Acceptable range: Between 0 and -0.5)
24. (9ME4-24)	The discount of the cake is _\$96	1	No need to consider unit
25.	The value of the 3rd term of the sequence is <u>8</u> .	1	
26.	1	1	
27. (9ME2-29)	$y^2 - 8y + 16$	1	
28.	(5x-1)(5x+1)	1	
29.	c = <u>6</u>	1	
30.	x < -2	1	
31.	x = <u>85°</u>	1	No need to consider unit
32.	$x = \underline{100^{\circ}}$	1	No need to consider unit
33. (9ME2-35)	x =40°	1	No need to consider unit
34.	P and R	1	Must be all correct
35.	PQ = 10 units	1	
36.	$x = \underline{22.2}$	1	r.t. 22.2 No need to consider unit

Question Number	Suggested Answers			Marks	Notes
37. (9ME4-37)					
	Table 1			1* (27.1)	Must be all compat
	Number of vehicles per minute	Frequency		1* (37-1)	Must be all correct
	0 – 14	2			
	15 – 29	6			
	30 – 44	7			
	Table 2				
	Number of vehicles per minute	Frequency		1* (37-2)	Must be all correct
	0-8	1			
	9 – 17	2			
	18 – 26	5			
	27 – 35	2			
	36 – 44	5			
29 (0) (7) (20)					
38. (9ME4-38)	(a) <u>50</u> batteries have been	examined in the	he test.	1 (38a)	
	(b) The median of the lifetime of batteries is <u>6</u> hours in the test.			1 (38b)	
	(c) 5 batteries do not mee the test.	t the requireme	ent in	1 (38c)	
39.	The weighted mean score of Sim	on is <u>3.9</u> .		1	

Section C - Sub-paper 3 (9ME3)

Question Number	Suggested Answers	Marks	Notes
40.	Interest		
	$= $5000 \times (1 + 8\%)^2 - 5000	1 (40-1)	
	= \$832	1* (40-2)	
		1** (40-3)	
41.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1* (42-1)	Must be all correct
	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1 (42-2)	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 $(0, 1)$ and the range of x must include the values from -3 to 2 .
		1* (42-3)	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	Notes
42.			
(9ME2-42)	$\begin{cases} y = 3x + 8 & \dots (1) \\ x + y = 4 & \dots (2) \end{cases}$		
	$(x \mid y = 1)$ (2)		
	Substitute (1) into (2),		
	x + 3x + 8 = 4	1 (42-1)	Correct method (eliminating one
	4x = -4		of the variables)
	x = -1	1* (42-2)	Correct value of x (or y)
	Substitute $x = -1$ into (1),	1	
	y = 3(-1) + 8	1 (42-3)	Correct method
	y = 5	1* (42-4)	Both values are correct
43. (9ME2-43)	$x = 2\pi (4) \times \frac{95^{\circ}}{360^{\circ}}$	1 (43-1)	
	≈ 6.632251		
	= 6.63 cm (corr. to 3 sig. fig.)	1* (43-2)	r.t. 6.63 cm
		1** (43-3)	
44.	$h = 768 \div 64$	1 (44-1)	
	= 12	1* (44-2)	
45.	$x + 45^\circ = 3x - 75^\circ$	1 (45-1)	
(9ME4-42)	$2x = 120^{\circ}$		
	x = 60°	1* (45-2)	
46.	$\frac{CE}{CA} = \frac{15}{5} = 3$		
	$\frac{CD}{CB} = \frac{9}{3} = 3$		
	$\therefore \frac{CE}{CA} = \frac{CD}{CB} = 3$		Or other correct proofs
	$\angle ACB = \angle ECD$ (vert. opp. $\angle s$)		
	$\therefore \triangle CAB \sim \triangle CED$ (ratio of 2 sides, inc. \angle)		
	Conditions		
	(1) Any correct proof with correct reasons	3	
	(2) Any correct proof with poor presentation,	2	
	missing reasons or inappropriate reasons	<u> </u>	
	(3) Incomplete proof with any one correct	1	
	statement and one corresponding reason	1	
	(4) Incomplete proof	0	
		ı	

Question Number		Marks	Notes		
47.	(a) Weight (g) 150 – 169 170 – 189 190 – 209 210 – 229	1* (47a)			
	(b) 8 7 6	Weight of 24 2.5 179.5 199 Weight (g)		1 (47b1) 1* (47b2)	The remaining 3 points are indicated according to the table above. The points are connected by line segments to form a frequency polygon. Correct frequency polygon (including correct indication of all 3 points and the points are connected by line segments)

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Steps that may be skipped are shown in shade.

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

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

Section B - Sub-paper 4 (9ME4)

Question Number	Suggested Answers	Marks	Notes
21.	5 ³	1	
22.	A = -5 $B = -2$ $C = 1 / +1$	1	Must be all correct
23.	382 000	1	
24. (9ME3-24)	The discount of the cake is\$96	1	No need to consider unit
25.	Number of orange jelly candies : Number of yellow jelly candies =2 :3	1	
26.	1	1	
27. (9ME1-27)	$x^2 + 4x - 5$	1	
28.	$3x^2 - 12x$	1	
29. (9ME1-26)	$(x+6)^2$	1	
30. (9ME1-29)	$\frac{5}{2x}$	1	
31. (9ME1-30)	x < -7	1	
32.	The percentage error of the measured value is 0.625% .	1	
33.	$x = \underline{50^{\circ}}$	1	No need to consider unit
34.	(a) $x = 8$ (b) $y = 30$	1	Must be all correct No need to consider unit
35.	x =50°	1	No need to consider unit
36.	The coordinates of Q' are $(3 _)$.	1	Must be all correct

Question Number		Suggested An		Marks	Notes	
37. (9ME3-37)						
		Table 1			4.15	
	Number of vehicles per minute		Frequency		1* (37-1)	Must be all correct
		0 – 14	2			
		15 – 29	6			
		30 – 44	7			
		Table 2			1* (37-2)	Must be all correct
		Number of vehicles per minute Freque			1 (0, 2)	11.000 0 0.00
		0-8		-		
		9 – 17	2			
		18 – 26	5			
		27 – 35	2			
		36 – 44	5]		
38. (9ME3-38)	(a) <u>tes</u>	50 batteries have be	the	1 (38a)		
		ne median of the lifetim urs in the test.	6	1 (38b)		
		5 batteries do not me	eet the requiren	nent in	1 (38c)	
39.		odal class of the amou				
		r" spent by the 36 peo	001	1	Must be all correct	
	\$ _ 5 (<u>)00 </u>				

Section C - Sub-paper 4 (9ME4)

Question Number	Suggested Answers	Marks	Notes
40.	The amount that Peter should receive		
	$=\frac{86000\times6.5}{}$	1 (40-1)	
	100	1 (40-1)	
	= 5 590 Hong Kong dollars	1* (40-2)	
		1** (40-3)	
41. (9ME1-42)	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1* (41-1)	Must be all correct
	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1 (41-2)	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 (0, 1) and the range of <i>x</i> must include the values from –3 to 2. 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.
42.	$x + 45^\circ = 3x - 75^\circ$	1 (42-1)	
(9ME3-45)	$2x = 120^{\circ}$		
	x = 60°	1* (42-2)	

Question Number		Marks	Notes					
43.	AE = DE							
	$\angle BAE = \angle CDE$ (Given)							Or other correct
	$\angle AEB = \angle DEC$	(ve			proofs			
	$\therefore \triangle ABE \cong \triangle DCE$							
			•					
	(1) Any correct pro	of with	3					
	(2) Any correct pro	of with	poor pres	sentation	, missing	reasons		
	or inappropriate	e reason:	S				2	
	(3) Incomplete pro	of with a	any one c	correct sta	atement a	and one	1	
	corresponding	reason					1	
	(4) Incomplete pro	of					0	
44. (9ME1-45)	$AB = \sqrt{2.4^2 + 7^2}$						1 (44-1)	
	= 7.4 cm							
	The perimeter of the	rhombu	ıs					
	$= 4 \times 7.4$							
	= 29.6 cm						1* (44-2)	
							1** (44-3)	
45.	The area of $\triangle AB$	BC					1 (44-3)	
(9ME1-46)	[2 – (–4)] × (6 –	1)						
	$= \frac{[2-(-4)]\times(6-)}{2}$	<u>1)</u>					1 (45-1)	Or other correct
	= 15 sq. units		1* (45-2)	methods				
							1** (45-3)	
46.	(a)						1 (43-3)	
	Result (Mark)	1 – 20	21 - 40	41 – 60	61 – 80	81 - 100		
	Class Mark (Mark)	10.5	30.5	50.5	70.5	90.5	1* (46a)	Must be all correct
	Frequency	5	8	12	4	1		
	Trequency	<u> </u>	0	12	T	1		
	(b) The mean							
	$10.5 \times 5 + 30.5$	1 (42) 1)						
	=	5+8+	1 (46b1)	Correct method				
	= 42.5 marks							
							1** (46b3)	

Question Number		Sı	Marks	Notes			
47.	(a) Shaved ice flavor						
			Watermelon (W)	Strawberry (S)	Chocolate (C)		
		Nuts (N)	NW	NS	NC	1* (47a)	Must be all
	Topping	Marshmallows (M)	MW	MS	MC		correct
		Biscuit (B)	BW	BS	BC		
	. ,	probability that K nuts = $\frac{1}{9}$	1* (47b)	Or 0.111			