





Read the instructions on the **ANSWER SHEET** and fill in your **NAME**, **SCHOOL** and **OTHER INFORMATION**.

Use a pencil. Do **NOT** use a coloured pencil or a pen. Rub out any mistakes completely.

You MUST record your answers on the ANSWER SHEET.

Mark only **ONE** answer for each question.

Your score will be the number of correct answers.

Marks are **NOT** deducted for incorrect answers.

There are **4 MULTIPLE-CHOICE QUESTIONS** (1–4).

Use the information provided to choose the **BEST** answer from the four possible options.

On your **ANSWER SHEET** fill in the oval that matches your answer.

There is 1 FREE-RESPONSE QUESTION (5).

Write your answer in the boxes provided on the **ANSWER SHEET** and fill in the ovals that match your answer.

You may use a ruler and spare paper.

A CALCULATOR is required.

MATHEMATICS

DO NOT OPEN THIS BOOKLET UNTIL INSTRUCTED.

STUDENT'S NAME:

- 1. Alan uses this spinner in a game. \cap \bigcirc \bigcirc On which symbol is the arrow most likely to stop? (C) (A) (B) (D) 2. Fran's father has agreed to pay her \$1.50 per square metre for painting the wall shown. 3 m 7 m How much will Fran be paid when she finishes painting the whole wall? (A) \$10.50 (B) \$14.00 \$31.50 (C) \$42.00 (D)
- 3. This picture shows an airport departure screen.

Time	Flight Number	Destination	Gate
13:00	F973	London	R
13:25	F613	Singapore	S
13:35	F023	Hong Kong	R
13:45	F255	New York	S
13:50	F340	Paris	R
13:50	F812	Auckland	S

Which flight leaves 15 minutes before the Paris flight?

- (A) F023
- (B) F812
- (C) F613
- (D) F973

 Mary drew this graph to show the amount of Vitamin C in some different types of food.
 She did not complete the vertical scale.

Natural Sources of Vitamin C



Which of these tables could be correct for Mary's graph?

Food	Vitamin C	
apples	6	i
blackcurrants	50	
lemons	50	
oranges	50	(
pineapples	30	
tomatoes	25	1
(A)		

Food	Vitamin C
apples	6
blackcurrants	100
lemons	50
oranges	50
pineapples	30
tomatoes	50
(B)	

Food	Vitamin C
apples	6
blackcurrants	200
lemons	50
oranges	50
pineapples	30
tomatoes	50
(C)	

Food	Vitamin C
apples	6
blackcurrants	200
lemons	50
oranges	50
pineapples	30
tomatoes	25
(D)	

QUESTION 5 IS FREE RESPONSE.

Write your answer in the boxes provided on the ANSWER SHEET and fill in the ovals that match your answer.

5. Ricky is thinking of a positive 3-digit number.



What is the lowest possible number Ricky is thinking of?

END OF PAPER

ACKNOWLEDGMENT

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Australia	Year 8
Brunei	Form 2 & 3
Hong Kong	Form 2
Indian Subcontinent ¹	Class 8
Indonesia	Year 9
Malaysia	Form 2
Middle East ²	Class 8
New Zealand/Pacific ³	Year 9
Singapore	Secondary 1
Southern Africa⁴	Grade 8

Indian Subcontinent Region: India, Sri Lanka, Nepal, Bhutan and Bangladesh.
 Middle East Region: United Arab Emirates, Qatar, Kuwait, Saudi Arabia, Egypt, Bahrain, Oman, Turkey, Lebanon, Tunisia, Morocco, Libya, Algeria and Jordan.
 Pacific Region: Vanuatu, Papua New Guinea and Fiji.
 Southern Africa Region: South Africa, Botswana, Lesotho, Swaziland, Zimbabwe and Namibia.



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HOW TO FILL OUT THIS SHEET:

- Print your details clearly in the boxes provided.
- Make sure you fill in only <u>one</u> oval in each column.
- Rub out all mistakes completely.
- Do not use a coloured pencil or pen.

EXAMPLE 1: <u>Debbie Bach</u>					
LAST NAME					
СН					
BG					
-					

EXAMPLE 2: Chan Ai Beng												
FIR	ST	NA	M	Ξ	LA	ST	NA	ME				
С	Н	Α	Ν		A	Ι		В	Е	Ν	G	
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b	~				(C)	(F)	Ē	Ē	~			

EXAMPLE 3: Jamal bin Abas													
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J	Α	Μ	Α	L		В	Ι	Ν	Α	В	Α	S	7
D	Ο	\overline{O}	0	Ο	•	Ο	0	C	Ο	0	Ο	Ο	1
A	0	A	0	A	A	A	A	Q	0	A	0	A	
B	B	B	B	B	B	•	B	C	B	0	B	œ	
C	C	C	C	C	C	C	C		C	C	C	r	
D	D	D	D	▣	D	P			▣	D	$(\ \)$		
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FIRST NAME to appear on certificate LAST NAME to appear on certificate \bigcirc \square \bigcirc \bigcirc $\mathbf{E} \in \mathbf{E} \in$ $\mathbf{E} \in \mathbf{E} \in \mathbf{E}$ $\begin{array}{c} \mathbf{F} & \mathbf{$ \mathbf{H} \mathbf M. M. M NN \textcircled DATE OF BIRTH STUDENT ID CLASS Are you male or female? O Male Female (optional) (optional) Day Month Year Does anyone in your home usually speak a language other than English? O Yes 0 K 11 (1)(1) (1)(1)1 1 (1)School name: 22 2 22 2 2 2 33 33 3 3 3 3 4 4 44 4 (4)4 4 5 5 55 5 (5) 5 5 5 5 5 (F) P 6 66 66 6 6 GQ Town / suburb: (6) 6 7 77 $\bigcirc \bigcirc \bigcirc$ 7 HR 7 \mathcal{T} 7 7 Today's date: Postcode: 8 88 8 8 8 8 8 8 8 S

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(9)

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TO ANSWER THE QUESTIONS

MULTIPLE CHOICE

Questions 1 to 4

Example: 4 + 6 =

- (A) 2
- (B) 9
- (C) 10
- (D) 24

The answer is $\underline{10}$, so fill in the oval \odot , as shown.

A B 🔵 D

START

A	B	\odot	D
A	B	C	D
A	B	C	D
A	B	C	D
	AAAA	 A B A B A B A B A B 	 A B C

FREE RESPONSE

Question 5

Example: 6 + 6 =

- The answer is <u>12</u>, so <u>WRITE</u> your answer in the boxes.
- Write only <u>ONE</u> digit in each box, as shown, and fill in the correct ovals, as shown.



USE A PENCIL

DO NOT USE A COLOURED PENCIL OR PEN

1 2

8 8

0 0

0

1

2 2 •

3 3 3

4 4 4

5 5 5

6 6 6

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QUESTION	KEY	SOLUTION	STRAND	LEVEL OF DIFFICULTY
1	А	The arrow will be most likely to stop on the symbol with the greatest frequency (3 out of 8)	Chance and Data	Easy
2	С	The area of the wall is $3 \times 7 = 21$ square metres. She will be paid $21 \times \$1.50 = \31.50 .	Measurement	Easy
3	А	From the table you can see that the Paris flight departs at 13:50. Fifteen minutes before that is 13:35 and that is the time when flight F023 departs.	Measurement	Easy
4	D	With a careful look at all options, the main difference is the ratio of tomatoes to blackcurrants. Using the given graph, the ratio of tomatoes to blackcurrants is 1:8. Only option D gives this ratio.	Chance and Data	Easy
5	990	990 is the lowest common multiple of 9, 10 and 11.	Number and Arithmetic	Hard

Level of difficulty refers to the expected level of difficulty for the question.				
more than 70% of candidates will choose the correct option				
about 50–70% of candidates will choose the correct option				
about 30–50% of candidates will choose the correct option				
less than 30% of candidates will choose the correct option				