



Competitions and Assessments for Schools

DO NOT OPEN THIS BOOKLET UNTIL INSTRUCTED.

STUDENT'S NAME:

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

Do **NOT** use a pen.

You MUST record your answers on the ANSWER SHEET.

MATHEMATICS

Mark only **ONE** answer for each question. Marks are **NOT** deducted for incorrect answers.

MULTIPLE-CHOICE QUESTIONS:

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

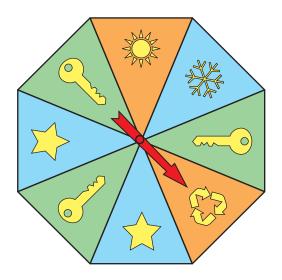
On your **ANSWER SHEET** fill in the oval that matches your answer.

FREE-RESPONSE QUESTIONS:

Write your answer in the boxes provided on the ANSWER SHEET

You may use a ruler and spare paper. A **CALCULATOR** is required.

Educational Assessment 1. Alan uses this spinner in a game.



On which symbol is the arrow most likely to stop?









(A)

(B)

(C)

(D)

2. Fran's father has agreed to pay her \$1.50 per square metre for painting the wall shown.



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)

This picture shows an a 3. screen.

		Sil				
This picture shows an an exture screen. Time Flight Number Destination Gate 13:00 F973 London R						
Time	Flight Number	Destination	Gaic	7.00		
13:00	F973	London	R	V	3	
13:25	F613	Singapore	S	١ ٦		
13:35	F023	Hong Kong	R		7	
13:45	F255	New York	S		Į.	
13:50	F340	Paris	R			
13:50	F812	Auckland	S			

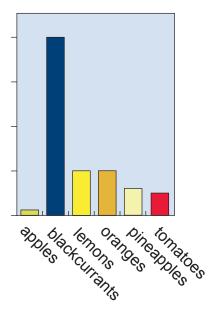
Which flight leaves 15 minutes before the Paris flight?

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

4. 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	VitaminC
apples	6
blackcurrants	50
lemons	50
oranges	50
pineapples	30
tomatoes	25

(A)

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

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

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

QUESTION 5 IS FRE.

Write your answer in the boxe. the ANSWER SHEET and fill in th match your answer.

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

> If I subtract 9 from the number, the result will be divisible by 9. If I subtract 10 from the number, the result will be divisible by 10. If I subtract 11 from the number, the result will be divisible by 11.'



What is the lowest possible number Ricky is thinking of?

Acknowledgment

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The following year levels should sit THIS Paper:

Australia	Year 8
Brunei	Form 2 & 3
Hong Kong	Form 2
Indonesia	Year 9
Malaysia	Form 2
New Zealand	Year 9
Pacific	Year 8
Singapore	Secondary 1
South Africa	Grade 8





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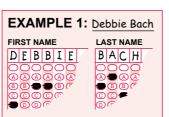




HOW TO FILL OUT THIS SHEET:

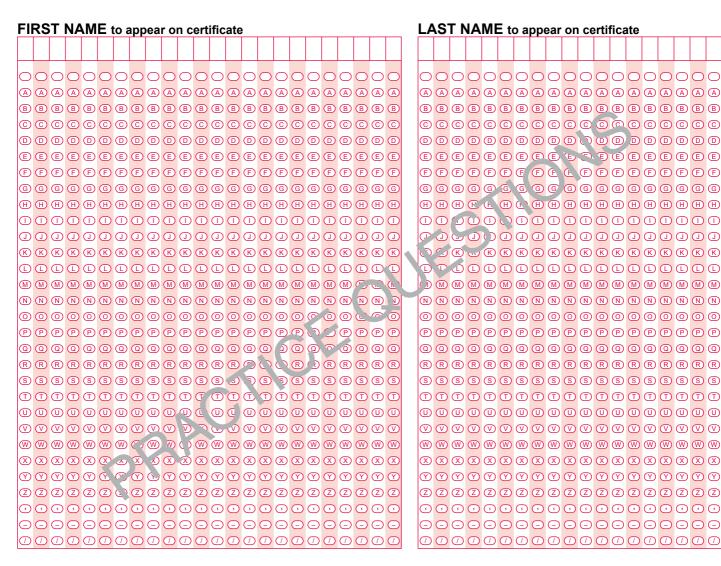


- Rub out all mistakes completely.
- Print your details clearly in the boxes provided.
- Make sure you fill in only one oval in each column.



EXAMPLE 2: Chan Ai Beng						
FIRST NAME LAST NAME						
CHAN	AIBENG					
0000	000000					
• © @	000000					
D C						

FIRST NAME LAST NAM	1E
TAMALDTNIARAG	
JAMAL DIIN ADAS	5
000000000000000000000000000000000000000	5
	A) F



Are you male Male		
Does anyone O Yes	in your home us	sually speak a language other than English?
School name:	:	

DATE OF BIRTH						
Day		Month		Year		
0	0	0	0	0	0	
1	1	1	1	1	1	
2	2		2	2	2	
3	3		3	3	3	
	4		4	4	4	
	(5)		(5)	(5)	(5)	
	6		6	6	6	

TO ANSWER THE QUESTIONS

MULTIPLE CHOICE

Example: 6 + 4 =

- 2 (A)
- (B) 9

10 (C) **START**

(D) 24

FREE RESPONSE

Example: 6 + 6 =

USE 2B OR B PENCIL

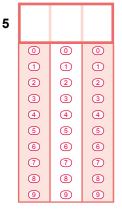
- The answer is 12, so WRITE your answer in the boxes.
- Write only ONE digit in each box, as shown, and fill in the correct oval, as shown.

Stude!	715	COLL	25.	CON
<u>ITE</u> your		1	2	1
ach box, orrect oval,		○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○○<		

The answer is 10, so fill in the oval ©, as shown.

(Ф	_	<u>u</u>

1	A	B	©	D
2	A	B	©	D
3	A	B	©	D
4	A	B	©	(D)



QUESTION	KEY	SOLUTION	STRAND	Child OF TY
1	A	The arrow will be most likely to stop on the symbol with the greatest frequency (3 out of 8)	Chance and Data	OF TTY 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	A	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.

Easy more than 70% of candidates will choose the correct option

Medium about 50–70% of candidates will choose the correct option

Medium/Hard about 30–50% of candidates will choose the correct option

Hard less than 30% of candidates will choose the correct option

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