

PAPER

E

SAMPLE



MATHEMATICS

**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**.

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).

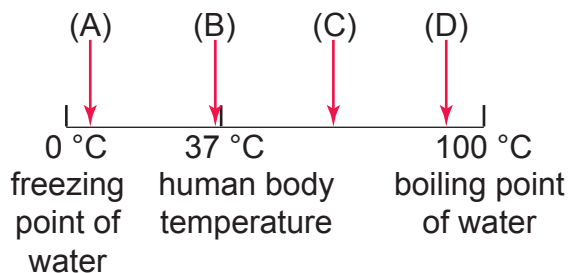
Write your answer in the boxes provided on the **ANSWER SHEET** and fill in the ovals that match your answer.

You may use a ruler and spare paper.

You are **NOT** allowed to use a calculator.

1. Below is a temperature scale ranging from 0°C to 100°C .

Which point on the scale would be closest to the temperature of an ice-cream?



2. $5 \times 50 =$?

- (A) 2 500
- (B) 1 000
- (C) 250
- (D) 100

3. Which one of the following numbers is *four hundred thousand, six hundred and two*?

- (A) 400 062
- (B) 400 602
- (C) 406 002
- (D) 406 602

4. Blake made up the following code.

0	1	2	3	4	5	6	7	8	9
↙	○	└	┘	┌	▬	□	↘	↗	✓

To read his coded numbers you start at the top left corner and read each line from left to right.

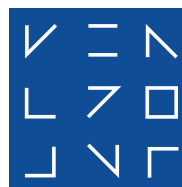
Which of the following codes correctly shows the number 957 286 304?



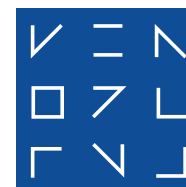
(A)



(B)



(C)

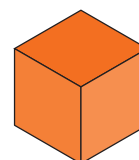


(D)

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. A cube has a volume of 343 cm^3 .



What is the **sum** of the lengths of the edges of the cube, in cm ?

END OF PAPER

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Australia	Year 7
Brunei	Form 1
Hong Kong	Form 1
Indian Subcontinent¹	Class 7
Indonesia	Year 8
Malaysia	Form 1
Middle East²	Class 7
New Zealand/Pacific³	Year 8
Singapore	Primary 6
Southern Africa⁴	Grade 7

1 Indian Subcontinent Region: India, Sri Lanka, Nepal, Bhutan and Bangladesh.

2 Middle East Region: United Arab Emirates, Qatar, Kuwait, Saudi Arabia, Egypt, Bahrain, Oman, Turkey, Lebanon, Tunisia, Morocco, Libya, Algeria and Jordan.

3 Pacific Region: Vanuatu, Papua New Guinea and Fiji.

4 Southern Africa Region: South Africa, Botswana, Lesotho, Swaziland, Zimbabwe and Namibia.



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AUSTRALIA

TO ANSWER THE QUESTIONS

MULTIPLE CHOICE

Questions 1 to 4

Example: $4 + 6 =$

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

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

(A) (B) (C) (D)

START

- | | | | | |
|---|---------------------------|---------------------------|---------------------------|---------------------------|
| 1 | <input type="radio"/> (A) | <input type="radio"/> (B) | <input type="radio"/> (C) | <input type="radio"/> (D) |
| 2 | <input type="radio"/> (A) | <input type="radio"/> (B) | <input type="radio"/> (C) | <input type="radio"/> (D) |
| 3 | <input type="radio"/> (A) | <input type="radio"/> (B) | <input type="radio"/> (C) | <input type="radio"/> (D) |
| 4 | <input type="radio"/> (A) | <input type="radio"/> (B) | <input type="radio"/> (C) | <input type="radio"/> (D) |

FREE RESPONSE

Question 5

Example: $6 + 6 =$

- 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 ovals, as shown.

	1	2
<input type="radio"/> 0	<input type="radio"/> 0	<input type="radio"/> 0
<input type="radio"/> 1	<input checked="" type="radio"/> 1	<input type="radio"/> 1
<input type="radio"/> 2	<input type="radio"/> 2	<input checked="" type="radio"/> 2
<input type="radio"/> 3	<input type="radio"/> 3	<input type="radio"/> 3
<input type="radio"/> 4	<input type="radio"/> 4	<input type="radio"/> 4
<input type="radio"/> 5	<input type="radio"/> 5	<input type="radio"/> 5
<input type="radio"/> 6	<input type="radio"/> 6	<input type="radio"/> 6
<input type="radio"/> 7	<input type="radio"/> 7	<input type="radio"/> 7
<input type="radio"/> 8	<input type="radio"/> 8	<input type="radio"/> 8
<input type="radio"/> 9	<input type="radio"/> 9	<input type="radio"/> 9



USE A PENCIL

DO NOT USE A COLOURED PENCIL OR PEN

SAMPLE

5

<input type="radio"/> 0	<input type="radio"/> 0	<input type="radio"/> 0
<input type="radio"/> 1	<input type="radio"/> 1	<input type="radio"/> 1
<input type="radio"/> 2	<input type="radio"/> 2	<input type="radio"/> 2
<input type="radio"/> 3	<input type="radio"/> 3	<input type="radio"/> 3
<input type="radio"/> 4	<input type="radio"/> 4	<input type="radio"/> 4
<input type="radio"/> 5	<input type="radio"/> 5	<input type="radio"/> 5
<input type="radio"/> 6	<input type="radio"/> 6	<input type="radio"/> 6
<input type="radio"/> 7	<input type="radio"/> 7	<input type="radio"/> 7
<input type="radio"/> 8	<input type="radio"/> 8	<input type="radio"/> 8
<input type="radio"/> 9	<input type="radio"/> 9	<input type="radio"/> 9



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QUESTION	KEY	SOLUTION	STRAND	LEVEL OF DIFFICULTY
1	A	The temperature of an ice-cream is very close to the freezing point of water (0°C). Noticing the given scale, the closest point to 0°C is option A.	Measurement	Easy
2	C	Multiplying 5 by 50 gives 250.	Number and Arithmetic	Easy
3	B	This number should have 6 digits. If we write it using expanded notation, we should have $400\,000 + 600 + 2$. In other words, it is 400 602.	Number and Arithmetic	Easy
4	C	Reading the code from left to right from the upper left corner and using the key provided, option C is the only code that shows correctly all digits of the given number.	Number and Arithmetic	Easy
5	84	If a cube has a volume of 343 cm^3 then its edge length is 7 cm. There are 12 edges on a cube, so the total length of the edges is $7 \times 12 = 84\text{ cm}$	Measurement	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

