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 2B or B pencil. Do NOT use a pen. Rub out any mistakes completely.

You MUST record your answers on the ANSWER SHEET.

MATHEMATICS

Mark only ONE answer for each question. Your score will be the number of correct answers. 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 and fill in the oval that matches 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?

(A) 0 °C
(B) freezing point of water
(C) human body temperature
(D) boiling point of water

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.

<table>
<thead>
<tr>
<th>0</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
</tr>
</thead>
<tbody>
<tr>
<td>\</td>
<td>\</td>
<td>\</td>
<td>\</td>
<td>\</td>
<td>\</td>
<td>\</td>
<td>\</td>
<td>\</td>
<td>3</td>
</tr>
<tr>
<td>\</td>
<td>\</td>
<td>\</td>
<td>\</td>
<td>\</td>
<td>\</td>
<td>\</td>
<td>\</td>
<td>\</td>
<td>2</td>
</tr>
<tr>
<td>\</td>
<td>\</td>
<td>\</td>
<td>\</td>
<td>\</td>
<td>\</td>
<td>\</td>
<td>\</td>
<td>\</td>
<td>1</td>
</tr>
<tr>
<td>\</td>
<td>\</td>
<td>\</td>
<td>\</td>
<td>\</td>
<td>\</td>
<td>\</td>
<td>\</td>
<td>\</td>
<td>0</td>
</tr>
</tbody>
</table>

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)  

5. A cube has a volume of 343 cm³.

What is the sum of the lengths of the edges of the cube, in cm?
This page may be used for working.
The following year levels should sit THIS Paper:

<table>
<thead>
<tr>
<th>Country</th>
<th>Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Year 7</td>
</tr>
<tr>
<td>Brunei</td>
<td>Form 1</td>
</tr>
<tr>
<td>Hong Kong</td>
<td>Form 1</td>
</tr>
<tr>
<td>Indonesia</td>
<td>Year 8</td>
</tr>
<tr>
<td>Malaysia</td>
<td>Form 1</td>
</tr>
<tr>
<td>New Zealand</td>
<td>Year 8</td>
</tr>
<tr>
<td>Pacific</td>
<td>Year 7</td>
</tr>
<tr>
<td>Singapore</td>
<td>Primary 6</td>
</tr>
<tr>
<td>South Africa</td>
<td>Grade 7</td>
</tr>
</tbody>
</table>
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.

<table>
<thead>
<tr>
<th>FIRST NAME to appear on certificate</th>
<th>LAST NAME to appear on certificate</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

EXAMPLE 1: Debbie Bach
- FIRST NAME:
- LAST NAME:
  - D
  - E
  - B
  - B
  - A
  - C

EXAMPLE 2: Chan Ai Beng
- FIRST NAME:
- LAST NAME:
  - C
  - H
  - A
  - I
  - B
  - E
  - N

EXAMPLE 3: Jamal bin Abas
- FIRST NAME:
- LAST NAME:
  - J
  - A
  - M
  - A
  - M
  - B
  - I
  - N
  - B
  - I
  - N
  - A
  - B
  - A
  - S

Are you male or female?
- Male
- Female

Does anyone in your home usually speak a language other than English?
- Yes
- No

School name: _________________________________

Town / suburb: _______________________________  

Today’s date: ____________________  Postcode: ____________________

DATE OF BIRTH
<table>
<thead>
<tr>
<th>Day</th>
<th>Month</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

CLASS (optional)
<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
TO ANSWER THE QUESTIONS

MULTIPLE CHOICE

Example: \( 6 + 4 = \)

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

START

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

FREE RESPONSE

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 oval, as shown.

Your privacy is assured as EAA fully complies with appropriate Australian privacy legislation. Visit www.eaa.unsw.edu.au for more details.
<table>
<thead>
<tr>
<th>QUESTION</th>
<th>KEY</th>
<th>SOLUTION</th>
<th>STRAND</th>
<th>LEVEL OF DIFFICULTY</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A</td>
<td>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.</td>
<td>Measurement</td>
<td>Easy</td>
</tr>
<tr>
<td>2</td>
<td>C</td>
<td>Multiplying 5 by 50 gives 250.</td>
<td>Number and Arithmetic</td>
<td>Easy</td>
</tr>
<tr>
<td>3</td>
<td>B</td>
<td>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.</td>
<td>Number and Arithmetic</td>
<td>Easy</td>
</tr>
<tr>
<td>4</td>
<td>C</td>
<td>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.</td>
<td>Number and Arithmetic</td>
<td>Easy</td>
</tr>
<tr>
<td>5</td>
<td>84</td>
<td>If a cube has a volume of 343 cm³ then its edge length is 7 cm. There are 12 edges on a cube, so the total length of the edges is $7 \times 12 = 84$ cm</td>
<td>Measurement</td>
<td>Hard</td>
</tr>
</tbody>
</table>

**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