## - ICAS ASSESSMENTS" ${ }^{\text {T }}$



## PRACTICE QUESTIONS

## Mathematics

DO NOT OPEN THIS BOOKLET UNTIL INSTRUCTED.

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 5 MULTIPLE-CHOICE QUESTIONS (1-5).
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.

You may use a ruler and spare paper.
You are NOT allowed to use a calculator.

1. Below is a temperature scale ranging from $0^{\circ} \mathrm{C}$ to $100^{\circ} \mathrm{C}$.

Which point on the scale would be closest to the temperature of an ice-cream?
 water
2. $5 \times 50=$ ?
(A) 2500
(B) 1000
(C) 250
(D) 100
3. Which one of the following numbers is four hundred thousand, six hundred and two?
(A) 400062
(B) 400602
(C) 406002
(D) 406602
4. Blake made up the following code.

| 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\vee$ | $\bigcirc$ | $\llcorner$ | - | $\Gamma$ | - | $\square$ | $\wedge$ | 7 | $V$ |

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 957286304 ?

(A)

(C)

(B)

(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 $343 \mathrm{~cm}^{3}$.


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

[^0]HOW TO FILL OUT THIS SHEET:

## $\Longrightarrow$ USE A PENCIL

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

EXAMPLE 1: Debbie Bach


EXAMPLE 2: Chan Ai Beng


EXAMPLE 3: Jamal bin Abas

| FIRSt name |  |  |  |  |  |  | LASt NAME |  |  |  |
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| J | A | M | A L | L | B | I N |  | A | B | A $S^{\text {S }}$ |
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## FIRST NAME to appear on certificate



## LAST NAME to appear on certificate

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## TO ANSWER THE QUESTIONS

## MULTIPLE CHOICE

Questions 1 to 35

Example: $4+6=$
(A) 2
(B) 9
(C) 10
(D) 24

The answer is 10 , so fill in the oval © , as shown.
USE A PENCIL
DO NOT USE A COLOURED PENCIL OR PEN

## START

| 1 | (A) | (8) | © | ® |
| :---: | :---: | :---: | :---: | :---: |
| 2 | (4) | (B) | © | (1) |
| 3 | (®) | (B) | © | © |
| 4 | (4) | (B) | © |  |



| QUESTION | KEY | SOLUTION | STRAND | LEVEL OF <br> DIFFICULTY |
| :---: | :---: | :--- | :--- | :--- |
| 1 | A | The temperature of an ice-cream is very close <br> to the freezing point of water $\left(0^{\circ} \mathrm{C}\right)$. Noticing <br> the given scale, the closest point to $0^{\circ} \mathrm{C}$ is <br> option A. | Measurement | Easy |
| 2 | C | Multiplying 5 by 50 gives 250. | Number and <br> Arithmetic | Easy |
| 3 | B | This number should have 6 digits. If we write it <br> using expanded notation, we should have <br> $400000+600+2$. In other words, it is <br> 400602. | Number and <br> Arithmetic | Easy |
| 4 | C | Reading the code from left to right from the <br> upper left corner and using the key provided, <br> option C is the only code that shows correctly <br> all digits of the given number. | Number and <br> Arithmetic | Easy |
| 5 | 84 | If a cube has a volume of $343 \mathrm{~cm}{ }^{3}$ then its edge <br> length is 7 cm. There are 12 edges on a cube, <br> so the total length of the edges is $7 \times 12=$ <br> 84 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

THE FOLLOWING YEAR LEVELS SHOULD SIT THIS PAPER

| Australia ${ }^{1}$ | Year 7 |
| :---: | :---: |
| Brunei | Form 1 |
| Egypt | Year 7 |
| Hong Kong | Form 1 |
| Indian Subcontinent ${ }^{\mathbf{2}}$ | Class 7 |
| Indonesia | Year 8 |
| Malaysia | Form 1 |
| Middle East ${ }^{3}$ | Class 7 |
| New Zealand/ Pacific ${ }^{4}$ | Year 8 |
| Singapore | Primary 6 |
| Southern Africa ${ }^{5}$ | Grade 7 |




[^0]:    * Free response questions are only applicable to some assessments.

