UNSW Global
THE UNIVERSITY OF NEW SOUTH WALES
SYDNEY • AUSTRALIA

PAPER A

Practice Questions

ICAS International 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**.
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.

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.

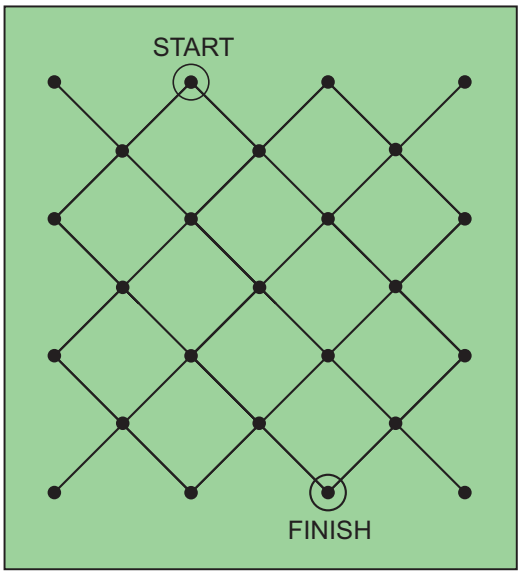
Educational Assessment

1. This is John's birthday cake.

How many candles are on his cake?

(A) 5
(B) 6
(C) 7
(D) 8

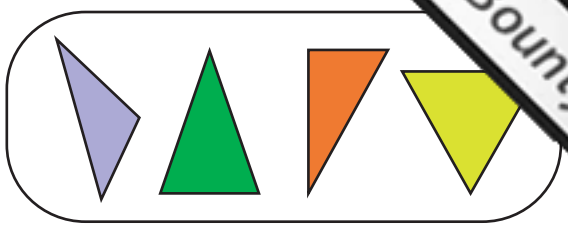
2. In the game below, Rita can only move along the lines, one dot at a time.



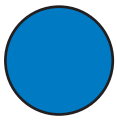
What is the **least** number of moves Rita can make to get from START to FINISH?

(A) 2
(B) 4
(C) 5
(D) 6

3. Here is a group of shape



Which other shape could belong to this group?



(A)

(B)

(C)

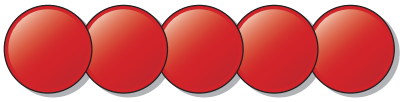
(D)

4. Lim makes toy cars.
Each car has 4 wheels.

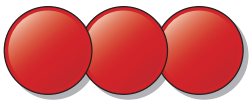
How many cars can he make using these wheels?

(A) 6
(B) 8
(C) 12
(D) 24

5. These five counters are overlapped and arranged into a row. The area covered by the five counters is 31 units.



Two counters are taken away. The area covered by the remaining three counters is 19 units.



What is the area of one counter  ?

(A) 4 units
(B) 5 units
(C) 6 units
(D) 7 units

This page may be used for working.

Acknowledgment

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The following year levels should sit THIS Paper:

Australia	Year 3
Brunei	Primary 3
Hong Kong	Primary 3
Indonesia	Year 4
Malaysia	Standard 3
New Zealand	Year 4
Pacific	Year 3
Singapore	Primary 2
South Africa	Grade 3

PAPER **A**

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PAPER **A** | **M**

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UNSW THE UNIVERSITY OF SYDNEY

HOW TO FILL OUT THIS SHEET:

USE 2B OR B PENCIL

- 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 1: Debbie Bach

FIRST NAME	LAST NAME
DEBBIE	BACH

EXAMPLE 2: Chan Ai Beng

FIRST NAME	LAST NAME
CHAN	AI BENG

EXAMPLE 3: Jamal bin Abas

FIRST NAME	LAST NAME
JAMAL BIN	ABAS

FIRST NAME to appear on certificate

LAST NAME to appear on certificate

Are you male or female?

○ Male ○ Female

Does anyone in your home usually speak a language other than English?

○ Yes ○ No

School name: _____

DATE OF BIRTH

Day	Month	Year
0 1 2 3	0 1	0 1 2 3 4 5 6

CLASS (optional)

A B C D E F G H I J K L M N O P Q

TO ANSWER THE QUESTIONS

Example: 4 + 6 =

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

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

Ⓐ Ⓑ ● Ⓓ

START

1 Ⓐ Ⓑ Ⓒ Ⓓ

2 Ⓐ Ⓑ Ⓒ Ⓓ

3 Ⓐ Ⓑ Ⓒ Ⓓ

4 Ⓐ Ⓑ Ⓒ Ⓓ

5 Ⓐ Ⓑ Ⓒ Ⓓ

QUESTION	KEY	SOLUTION	STRAND	LEVEL OF DIFFICULTY
1	C	Correctly count the candles. There are 7 candles on the cake.	Number and Arithmetic	Easy
2	D	Moving from one dot to the next counts as one move. Two south-west and four south-east moves (or four south-east and two south-west) are the minimum required to get from 'START' to 'FINISH'.	Space and Geometry	Easy
3	B	The set consists of shapes that are triangles.	Space and Geometry	Easy
4	A	There are 24 wheels. Each car needs four wheels. Divide 24 by 4 to work out the number of cars Lim can make. 24 divided by 4 equals 6.	Number and Arithmetic	Easy
5	D	Area of five counters – Area of three counters = 31 − 19 =12 (Area of two counters) Area of three counters – Area of two counters = 19 − 12 = 7 (Area of one counter)	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