PAPER D

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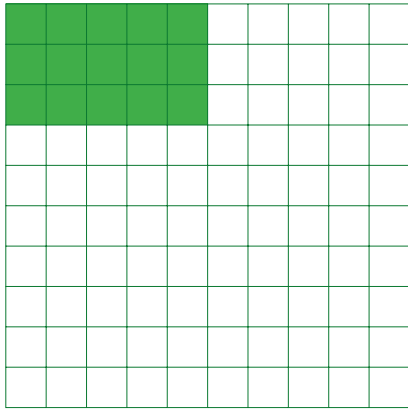
On your **ANSWER SHEET** fill in the oval that matches your answer.

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

Note: Some UNSW Global assessments are only available online.

1. Maree shaded some squares on a grid.

How many more squares would Maree need to shade so that half of this grid was shaded?
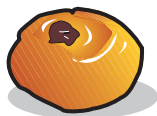
(A)   15
(B)   30
(C)   35
(D)   50

2. Sarah has $5 to spend on lunch.

orange juice
$1.50

salad sandwich
$2.50

bun
$2.00

apple
65c

If she buys one salad sandwich, which other two things could she buy?

(A)   one orange juice and one apple
(B)   one orange juice and one bun
(C)   two orange juices
(D)   one apple and one bun

3. Laura has a lunch break from 11:50 am to 1:20 pm.

How long is Laura's lunch break?

(A)   half an hour
(B)   one hour and twenty minutes
(C)   one and a half hours
(D)   two and a half hours

4. What is the missing number in this number pattern?

7   16   41
2   9   ?   66

(A)   24
(B)   25
(C)   34
(D)   35

5.*   Here is the start of a pattern.
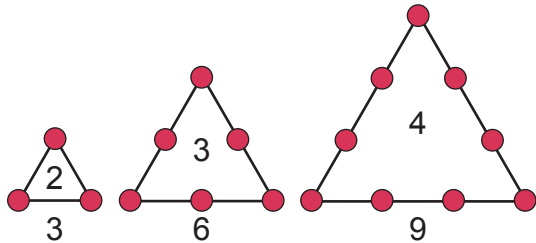
The number below each triangle gives the total number of dots on the triangle.

The number inside the triangle gives the number of dots on each side of the triangle.

When the total number of dots on a triangle in this pattern is 72, how many dots are there on each of its sides?

END OF PAPER

THIS PAGE MAY BE USED FOR WORKING.

HOW TO FILL OUT THIS SHEET:

✏️ **USE A PENCIL**

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

EXAMPLE 1: *Debbie Bach*

FIRST NAME | LAST NAME
D E B B I E | B A C H

EXAMPLE 2: *Chan Ai Beng*

FIRST NAME | LAST NAME
C H A N | A I   B E N G

EXAMPLE 3: *Jamal bin Abas*

FIRST NAME | LAST NAME
J A M A L   B I N | A B A S

FIRST NAME to appear on certificate

LAST NAME to appear on certificate

SAMPLE

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

Day   Month   Year

STUDENT ID (optional)

CLASS (optional)

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.

Ⓐ   Ⓑ   ⬤   Ⓓ

START

1   Ⓐ   Ⓑ   ⓒ   Ⓓ

2   Ⓐ   Ⓑ   ⓒ   Ⓓ

3   Ⓐ   Ⓑ   ⓒ   Ⓓ

4   Ⓐ   Ⓑ   ⓒ   Ⓓ

5

⓪	⓪	⓪
①	①	①
②	②	②
③	③	③
④	④	④
⑤	⑤	⑤
⑥	⑥	⑥
⑦	⑦	⑦
⑧	⑧	⑧
⑨	⑨	⑨

SAMPLE

QUESTION	KEY	SOLUTION	STRAND	LEVEL OF DIFFICULTY
1	C	There are 10 × 10 = 100 squares. Half of 100 is 50. Maree has already shaded 15 so she needs to shade 35 squares more (50 − 15 = 35).	Number and Arithmetic	Easy
2	A	$5 (lunch money) - $2.50 (sandwich) = $2.50 remaining $1.50 (juice) + $0.65 (apple) = $2.15, so there is $0.35 change All other options require more than the initial $5 lunch money.	Number and Arithmetic	Easy
3	C	From 11:50 am to 1:50 pm is one and a half hours. From 11:50 am to 12:50 pm there is one hour, then from 12:50 pm to 1 pm there are 10 minutes and from 1 pm to 1:20 pm there are 20 minutes. Altogether it is 1 hour and 30 minutes (1 hour + 10 minutes + 20 minutes).	Measurement	Easy
4	B	The triangles contain a number which is the sum of the numbers in the two preceding triangles. 2 + 7 = 9 and 7 + 9 = 16. The missing number is 9 + 16 = 25.	Algebra and Patterns	Medium
5	25	To solve this, find the pattern then test it on the examples given. Number of dots on each side = total number of dots ÷ 3 + 1 = 72 ÷ 3 + 1 = 25	Algebra and Pattern	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	
Australia¹	Year 6
Brunei	Primary 6
Egypt	Year 6
Hong Kong	Primary 6
Indian Subcontinent²	Class 6
Indonesia	Year 7
Malaysia	Standard 6
Middle East³	Class 6
New Zealand/ Pacific⁴	Year 7
Singapore	Primary 5
Southern Africa⁵	Grade 6

PAPER D

UNSW Global