

PAPER

D

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.

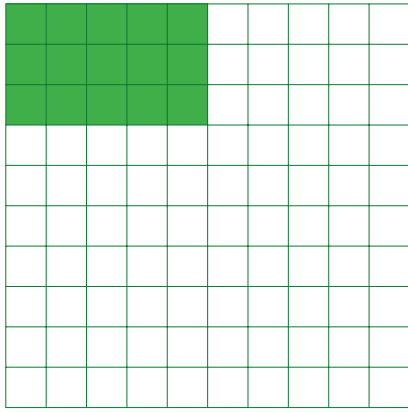
There is **1 FREE-RESPONSE QUESTION** (5).

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. 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

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

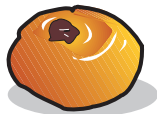
2. Sarah has \$5 to spend on lunch.



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

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

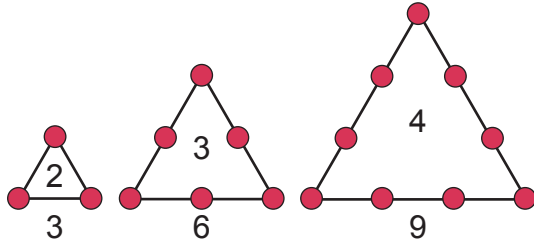


- (A) 24
- (B) 25
- (C) 34
- (D) 35

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. 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

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THE FOLLOWING YEAR LEVELS SHOULD SIT THIS PAPER:

Australia	Year 6
Brunei	Primary 6
Hong Kong	Primary 6
Indian Subcontinent¹	Class 6
Indonesia	Year 7
Malaysia	Standard 6
Middle East²	Class 6
New Zealand/Pacific³	Year 7
Singapore	Primary 5
Southern Africa⁴	Grade 6

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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UNSW Global
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 C , 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	C	There are $10 \times 10 = 100$ 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 $\div 3 + 1$ $= 72 \div 3 + 1$ $= 25$	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

