

ICAS

PAPER

B

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.

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You **MUST** record your answers on the **ANSWER SHEET**.

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Mark only **ONE** answer for each question.

Your score will be the number of correct answers.

Marks are **NOT** deducted for incorrect answers.

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There are **5 MULTIPLE-CHOICE QUESTIONS** (1–5).

Use the information provided to choose the **BEST** answer from the four possible options.

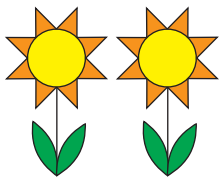
On your **ANSWER SHEET** fill in the oval that matches your answer.

---

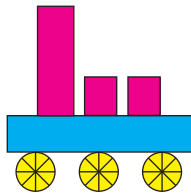
You may use a ruler and spare paper.

You are **NOT** allowed to use a calculator.

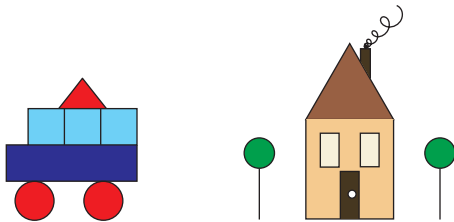
1. Which picture has 3 squares and 2 circles in it?



(A)



(B)



(C)

(D)

2. Which line is the longest?

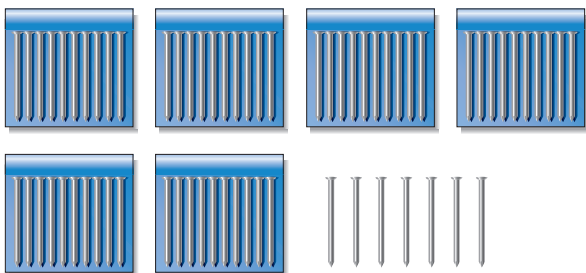
(A) \_\_\_\_\_

(B) \_\_\_\_\_

(C) \_\_\_\_\_

(D) \_\_\_\_\_

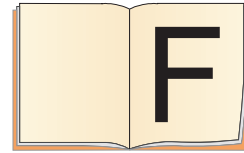
3. Steve has nails in packs of ten and some left over, as shown.



How many nails does Steve have altogether?

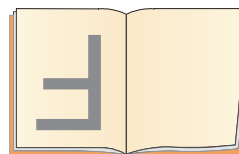
- (A) 13  
 (B) 67  
 (C) 76  
 (D) 607

4. Kumar wrote the letter 'F' in black pen.



When he turned the page, the 'F' showed through on the other side.

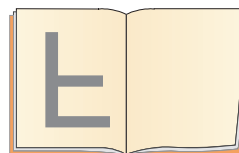
What did the 'F' look like on the other side of the page?



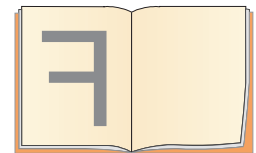
(A)



(B)



(C)



(D)

5. Six chocolate buttons cost the same as four red frogs.



How many chocolate buttons cost the same as ten red frogs?

- (A) 12  
 (B) 15  
 (C) 18  
 (D) 20

**END OF PAPER**

**THIS PAGE MAY BE USED FOR WORKING.**

# ACKNOWLEDGMENT

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<b>Australia</b>	Year 4
<b>Brunei</b>	Primary 4
<b>Hong Kong</b>	Primary 4
<b>Indian Subcontinent<sup>1</sup></b>	Class 4
<b>Indonesia</b>	Year 5
<b>Malaysia</b>	Standard 4
<b>Middle East<sup>2</sup></b>	Class 4
<b>New Zealand/Pacific<sup>3</sup></b>	Year 5
<b>Singapore</b>	Primary 3
<b>Southern Africa<sup>4</sup></b>	Grade 4

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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## TO ANSWER THE QUESTIONS

### MULTIPLE CHOICE

Questions 1 to 5

**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

(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) |
| 5 | <input type="radio"/> (A) | <input type="radio"/> (B) | <input type="radio"/> (C) | <input type="radio"/> (D) |

SAMPLE



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QUESTION	KEY	SOLUTION	STRAND	LEVEL OF DIFFICULTY
1	C	The picture in (C) has 3 squares and 2 circles.	Space and Geometry	Easy
2	B	Measure the lines. Line B is the longest.	Measurement	Easy
3	B	There are six packs of ten nails (that is 60 nails) and seven nails left over; together they make 67.	Number and Arithmetic	Easy
4	D	The image is a reflection of the letter 'F' on the spine of the book.	Space and Geometry	Medium
5	B	Six chocolate buttons cost the same as four red frogs. This means that three chocolate buttons cost the same as two red frogs. Therefore, count by threes to calculate that 6 chocolate buttons cost as much as 4 red frogs, 9 chocolate buttons cost as much as 6 red frogs, 12 chocolate buttons cost as much as 8 red frogs and 15 chocolate buttons cost as much as 10 red frogs. Therefore, the correct answer is 15.	Number and Arithmetic	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

