

# Practice Questions



# INTERNATIONAL COMPETITIONS AND ASSESSMENTS FOR SCHOOLS MATHEMATICS

**STUDENT'S NAME:**

**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 2B or B pencil.

Do **NOT** use a pen.

Rub out any mistakes completely.

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

There are **3 MULTIPLE-CHOICE QUESTIONS** (1–3).

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.

Your score will be the number of correct answers.

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

You may use a ruler and spare paper.

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

PLEASE SEE BACK COVER FOR A LIST  
OF THE YEAR LEVELS THAT SHOULD  
SIT THIS PAPER



## TO ANSWER THE QUESTIONS

### MULTIPLE CHOICE

Questions 1 to 3.

**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 (A) (B) (C) (D)

2 (A) (B) (C) (D)

3 (A) (B) (C) (D)

## INTERNATIONAL COMPETITIONS AND ASSESSMENTS FOR SCHOOLS MATHEMATICS

Your privacy is assured as EAA fully complies with appropriate Australian privacy legislation. Visit [www.eaa.unsw.edu.au](http://www.eaa.unsw.edu.au) for more details.



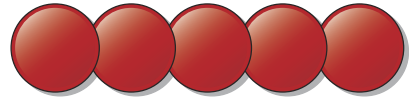
1. This is John's birthday cake.



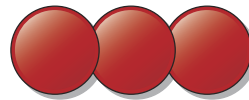
How many candles  are on his cake?


- (A) 5
- (B) 6
- (C) 7
- (D) 9

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



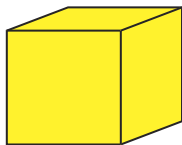
Two counters are taken away. The area covered by the remaining three counters is 19 units.



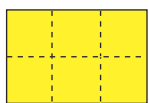
What is the area of one counter  ?

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

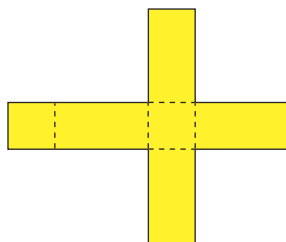
2. Here is a cube.



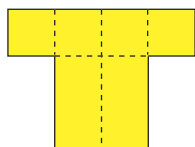
Which net below will fold to make a cube?



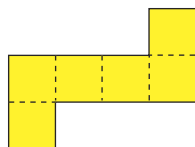
(A)



(B)



(C)



(D)

**END OF PAPER**

**THE FOLLOWING YEAR LEVELS  
SHOULD SIT FOR THIS PAPER:**

**AUSTRALIA: Year 3**

**BRUNEI: Primary 3**

**INDONESIA: Year 4**

**MALAYSIA: Standard 3**

**NEW ZEALAND: Year 4**

**PACIFIC: Year 3**

**SINGAPORE: Primary 2**

**SOUTH AFRICA: Grade 3**



## Question solutions–Paper A

### Question 1

Answer key: C  
Category: Number

<i>Options</i>	<i>Reasoning for options</i>
A 5	Incorrect guess.
B 6	Incorrect guess.
C 7	Correctly counted the candles
D 9	Incorrect guess.

Difficulty level: Easy. About 80-100% expected correct.

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### Question 2

Answer key: D  
Category: Space

<i>Options</i>	<i>Reasoning for options</i>
A	Incorrect Will not fold to give the 4 sides
B	Incorrect All 6 sides are not equal in length
C	Incorrect This would have 2 tops and no base
D	Correctly folds to make a cube

Difficulty level: Medium. About 31-79% expected correct.

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### Question 3

Answer key: D  
Category: Measurement

<i>Options</i>	<i>Reasoning for options</i>
A 4	Incorrect. Calculates $31 - 19 = 12$ , then divides by 3 in the picture
B 5	Incorrect. Counts number of counters in first picture.
C 6	Incorrect. Calculates area of 2 counters, $31 - 19 = 12$ , then halves 12.
D 7	Correct. Calculates the area of 2 counters, then area of 1 counter is $31 - 2 \times 12 = 7$

Difficulty level: Hard. Less than 31% expected correct.

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