





# INTERNATIONAL COMPETITIONS AND ASSESSMENTS FOR SCHOOLS MATHEMATICS

#### STUDENT'S NAME:

#### DO NOT OPEN THIS BOOKLET UNTIL INSTRUCTED.

Read the instructions on the  ${\bf ANSWER}$  SHEET and fill in your  ${\bf NAME},$  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



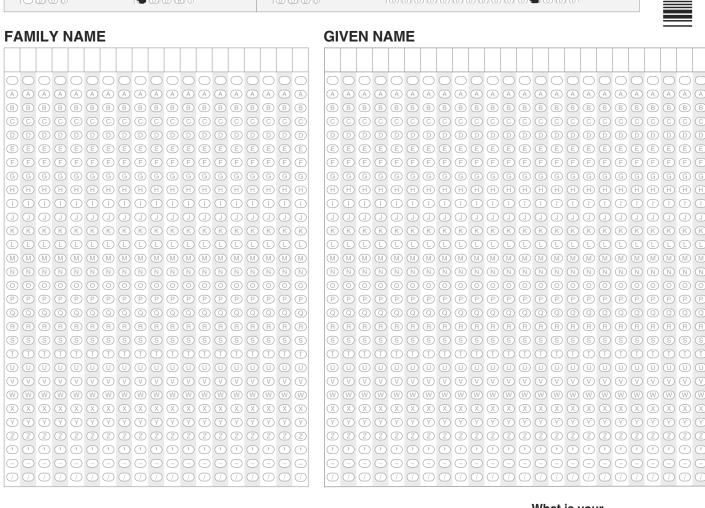
### INTERNATIONAL COMPETITIONS AND ASSESSMENTS FOR SCHOOL



#### HOW TO FILL OUT THIS SHEET: USE 2B OR B PENCIL

- Use 2B or B pencil only.
- Rub out all mistakes completely.
- Print your details clearly in the boxes provided.

<ul> <li>Make sure you fill in only <u>one</u> oval in each column.</li> </ul>				
EXAMPLE 1: De	ebbie Bach	EXAMPLE 2: Fahrul Asmady bin Abas		
FAMILY NAME	GIVEN NAME	FAMILY NAME	GIVEN NAME	
BACH	DEBBIE	ABAS	FAHRUL ASMADY BIN	
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Are you Male or Female?  Male Female  Does anyone in your home usually speak a language other than English?  Yes No
TAP I.D. (TAP Schools only)
School Name:  Town / Suburb:
Today's Date: Postcode:

What	is	you	ır
date o	of b	oirth	1?

date of birth?					
Day		Month		Year	
0	0	0	0	0	0
1	1	1	1	1	1
2	2		2	2	2
3	3		3	3	3
	4		4	4	4
	(5)		(5)	5	5
	6		6	6	6
	7		7	7	7
	8		8	8	8
	9		9	9	9

CLA	ASS
Opti	onal

A	
B	J
0	K
D	
Œ	M
F	N
G	0
$\oplus$	P

#### 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 © as shown.



#### USE 2B OR B PENCIL

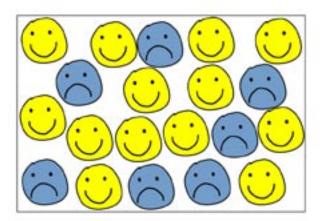
#### **START**

- 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 for more details.

1. Here is a group of faces.



What fraction of the group has smiling faces?

- (A)  $\frac{13}{13}$
- (B)  $\frac{13}{20}$
- (C)  $\frac{7}{13}$
- (D)  $\frac{7}{25}$

2. The objects below have the following masses.



= 200 grams

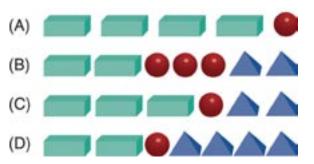


= 250 grams

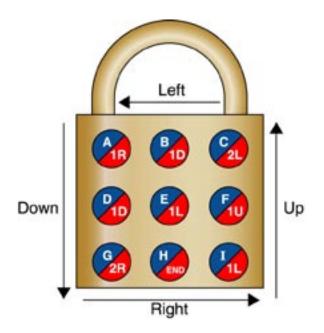


= 500 grams

Which combination of objects below makes up 2.050 kilograms?



3. This padlock can be opened if all of the buttons are pressed once and in the correct order.



On the buttons, the letters U, D, L, R stand for Up, Down, Left and Right.

For example, means press button A and then move 1 button to the Right.

If you end on button H, at which button should you start to open the lock?

- (A) A
- (B) C
- (C) E
- (D) F

#### **END OF PAPER**

## THE FOLLOWING YEAR LEVELS SHOULD SIT FOR THIS PAPER: AUSTRALIA: Year 5 BRUNEI: Primary 4 INDONESIA: Year 6 MALAYSIA: Standard 5 NEW ZEALAND: Year 6 PACIFIC: Year 5 SINGAPORE: Primary 4 SOUTH AFRICA: Grade 5

#### **Question solutions-Paper C**

#### Question 1

Answer key: B

Category: Number

Options Reasoning for options

A  $\frac{13}{13}$  Does not recognise denominator is the total number of faces.

B  $\frac{13}{20}$  Correct. There are 13 smiling faces among the total of 20 .

 $C\frac{7}{13}$  Total number of frown faces divided by total number of smiling faces.

D  $\frac{7}{25}$  Miscounts total number of faces. Counts faces with frowns.

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

#### Question 2

Answer key: D

Category: Measurement

Options Reasoning for options
A 2.25 Mistaken place value.

B 2.15 Incorrectly substitutes information. C 2.150 Incorrectly substitutes information.

D 2.050 Correct. Use the key to carefully substitute for each symbol

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

#### Question 3

Answer key: D
Category: Space

Options Reasoning for options
A start A C and F are not pressed

B start C F is not pressed

C start E A, B, C and F are not pressed

D start F Correct. All the keys are pressed once.

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