ICAS

SAMPLE

PAPER C

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

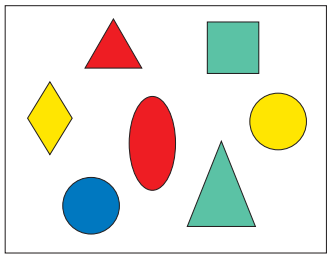
Use the information provided to choose the **BEST** answer from the four possible options.

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.

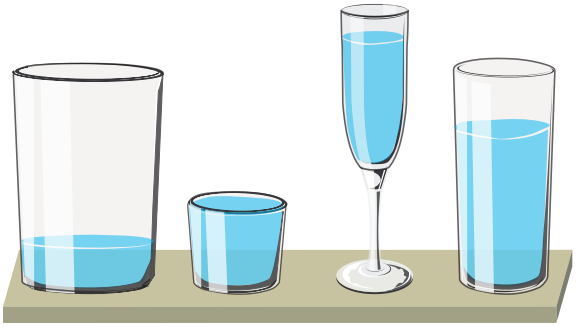
1. Here is a group of shapes.



How many circles are in this group?

(A) 2
(B) 3
(C) 4
(D) 5

2. Which glass contains the most water?



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

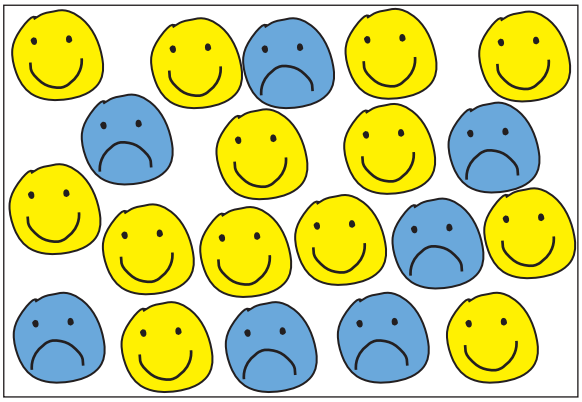
3. Here is a number pattern.

255, 365, 475, 585, ?, …

Which number is next in this pattern?

(A) 695
(B) 685
(C) 605
(D) 595

4. Here is a group of faces.

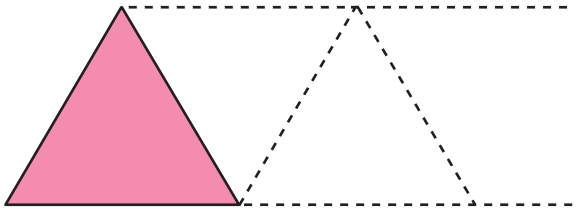


What fraction of the group has smiling faces?

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

5. Peter had some triangular tiles with sides 3 cm long.

He placed them side by side to make a trapezium.



If the perimeter of the trapezium was 27 cm, how many tiles did Peter use?

(A) 3
(B) 5
(C) 7
(D) 9

END OF PAPER

THIS PAGE MAY BE USED FOR WORKING.

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THE FOLLOWING YEAR LEVELS SHOULD SIT THIS PAPER:

Australia	Year 5
Brunei	Primary 5
Hong Kong	Primary 5
Indian Subcontinent[1]	Class 5
Indonesia	Year 6
Malaysia	Standard 5
Middle East[2]	Class 5
New Zealand/Pacific[3]	Year 6
Singapore	Primary 4
Southern Africa[4]	Grade 5

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.

PAPER C

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PAPER C

M

HOW TO FILL OUT THIS SHEET:

USE A PENCIL

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

EXAMPLE 1: Debbie Bach

FIRST NAME: DEBBIE

LAST NAME: BACH

EXAMPLE 2: Chan Ai Beng

FIRST NAME: CHAN

LAST NAME: AI BENG

EXAMPLE 3: Jamal bin Abas

FIRST NAME: JAMAL BIN

LAST NAME: ABAS

FIRST NAME to appear on certificate

LAST NAME to appear on certificate

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 5

Example: 4 + 6 =

(A) 2
(B) 9
(C) 10
(D) 24

The answer is 10, so fill in the oval Ⓒ, as shown.

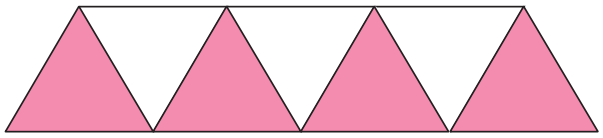
Ⓐ Ⓑ ● Ⓓ

USE A PENCIL
DO NOT USE A COLOURED PENCIL OR PEN

START

1	Ⓐ	Ⓑ	Ⓒ	Ⓓ
2	Ⓐ	Ⓑ	Ⓒ	Ⓓ
3	Ⓐ	Ⓑ	Ⓒ	Ⓓ
4	Ⓐ	Ⓑ	Ⓒ	Ⓓ
5	Ⓐ	Ⓑ	Ⓒ	Ⓓ

M PAPER C

QUESTION	KEY	SOLUTION	STRAND	LEVEL OF DIFFICULTY
1	A	There are two circles in the set.	Space and Geometry	Easy
2	D	This question tests estimation. By visual approximation based on the width of each glass and the height of the level of water in each glass, D contains the most water.	Measurement	Easy
3	A	The pattern is created by adding 110 to the previous number. 585 + 110 = 695	Algebra and Pattern	Easy
4	B	There are 13 smiling faces out of the total of 20.	Number and Arithmetic	Easy
5	C	The two sides of the trapezium would be 3 cm + 3 cm = 6 cm. The rest of the trapezium, which is 21 cm, would have to be formed by the two bases (the top and the bottom base of the shape). Knowing that each tile has a side of 3 cm, we need to divide 21 by 3 to get the total number of tiles needed. 	Measurement	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