# 2023 PRIMARY 3 END-OF-YEAR EXAMINATION

Name: _____ (  )  Date: 24 October 2023

Class: Primary 3 (  )  Time: 8.00 a.m. - 9.20 a.m.

Parent's Signature: _____  Marks: _____ / 40

# MATHEMATICS

**INSTRUCTIONS TO CANDIDATES**

1. Write your name, class and register number.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. The duration for the paper is 1 hour 20 min.

| | |
|---|---|
| Section A | 8 |
| Section B | 8 |
| Section C | 24 |

## Section A

Questions 1 to 8 carry 1 mark each.
For each question, four options are given. One of them is the correct answer.
Make your choice (1, 2, 3 or 4).
**Shade the correct oval (1, 2, 3 or 4) on the Optical Answer Sheet.** [8 marks]

1. What is the smallest 4-digit even number that can be formed with the digits 7, 3, 6 and 2 ?

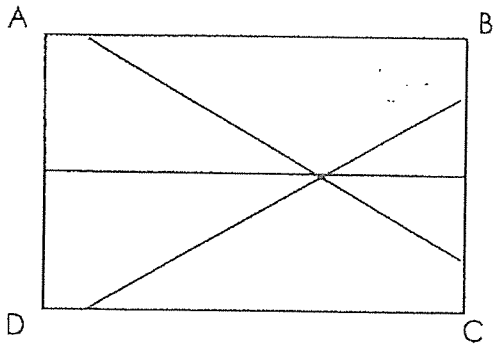
   (1) 2367

   (2) 2376

   (3) 2673

   (4) 2736

2. How many right angles are there in the figure ?




   (1) 10

   (2) 8

   (3) 6

   (4) 4

3. Which of the following fractions is smaller than $\frac{1}{2}$ ?

(1) $\frac{2}{3}$

(2) $\frac{3}{7}$

(3) $\frac{3}{5}$

(4) $\frac{2}{4}$

4. Betty has a roll of ribbon which is 5 m long. She uses 1 m 25 cm to wrap a gift box and 85 cm to make a ribbon bow. What is the length of ribbon left ?

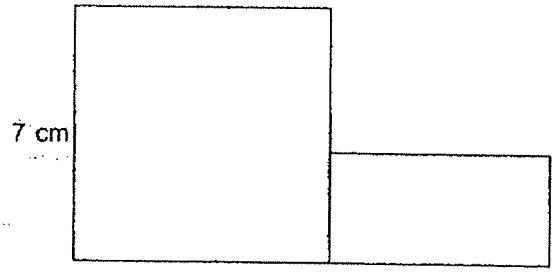
(1) 415 cm

(2) 375 cm

(3) 290 cm

(4) 210 cm

5. The figure is made up of a square and a rectangle. The total area is 67 $cm^2$. What is the area of the rectangle ?



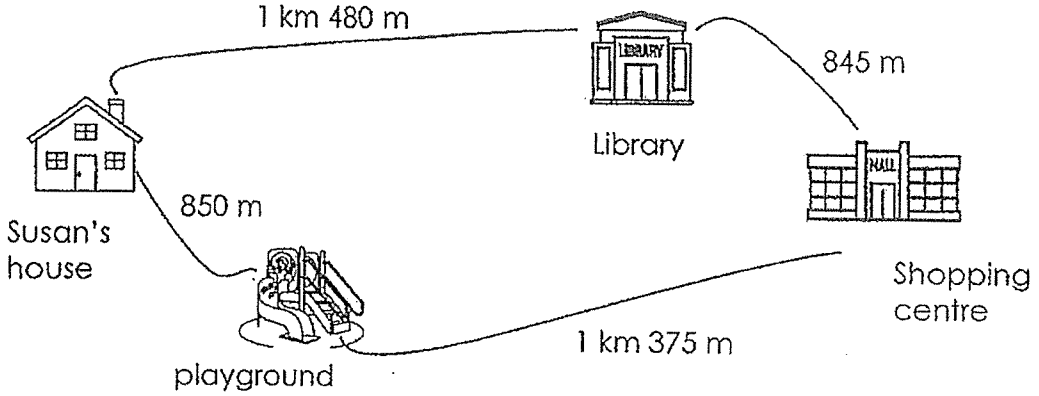

(1) 49 $cm^2$

(2) 39 $cm^2$

(3) 18 $cm^2$

(4) 14 $cm^2$

6. What is the shortest route to the shopping centre from Susan's house ?



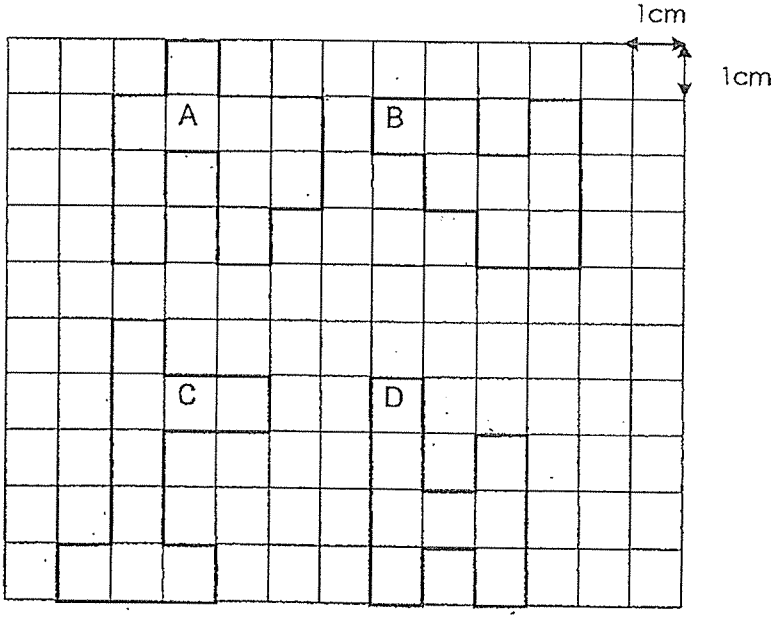

(1) 1 km 375 m

(2) 1 km 480 m

(3) 2 km 225 m

(4) 2 km 325 m

7. Which figures have the same perimeter ?



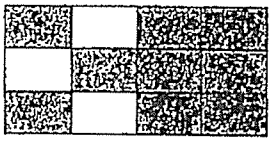

(1) A and C

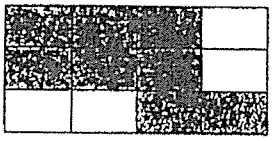
(2) B and C

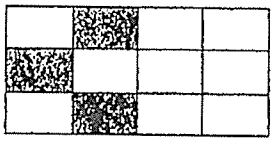
(3) B and D

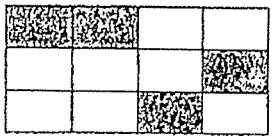
(4) C and D

8. Which of the following shows $\frac{1}{3}$ of the figure shaded ?

(1) 

(2) 

(3) 

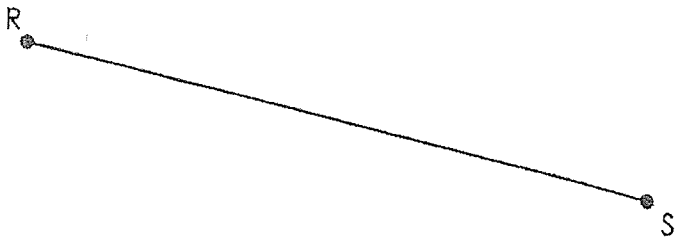
(4) 

## Section B

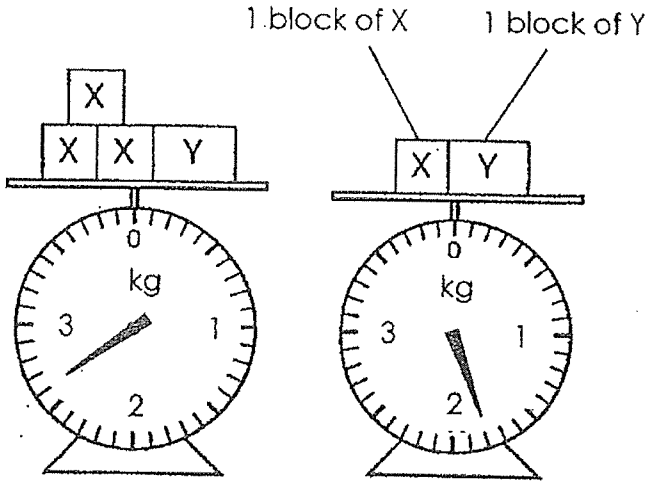
Questions 9 to 16 carry 1 mark each. Write your answers in the boxes provided. For questions which require units, give your answers in the units stated.

[8 marks]

9. Draw a line parallel to RS, passing through T.




10. Study the diagram.




What is the mass of each block of X?

g

11. Arrange the fractions below, from the smallest to the biggest fraction.

$\frac{3}{6}$ $\frac{1}{3}$ $\frac{4}{9}$

_____ , _____ , _____

smallest

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12. Some sticks are placed, at an equal distance from each other, in a straight line. The distance between the 1st and the 4th stick is 24 cm. The distance between the 1st and the last stick is 56 cm. How many sticks are there altogether ?

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13. Miss Foo paid $12 for a highlighter, a stapler and a file. The file cost $5.30. The stapler cost more than the highlighter.
For each statement, put a tick ( √ ) to indicate your answer.

| | Statement | True | False | Not possible to tell |
|---|---|---|---|---|
| a) | The total cost of the highlighter and the stapler was less than the cost of the file. | | | |
| b) | The stapler cost more than the file. | | | |

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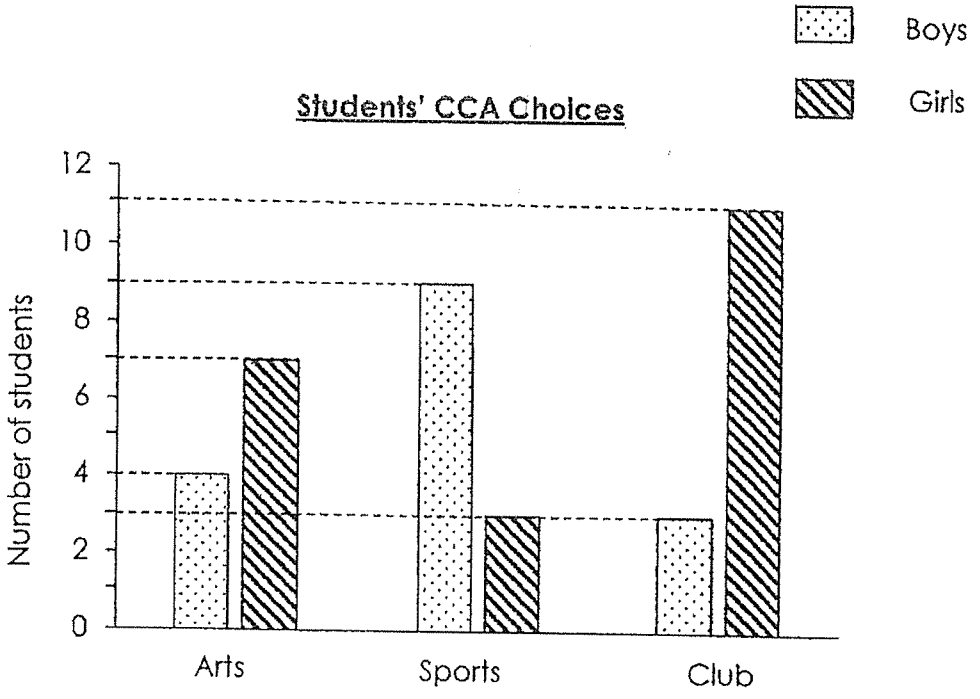
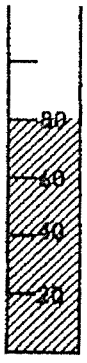
14. The bar graph shows the CCAs that a class of 40 students had chosen.
Each student signed up for one CCA only.
Some students were absent and did not choose their CCA.
How many students were absent ?



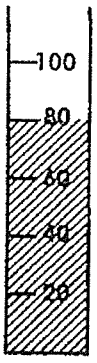
15. The diagram shows $\frac{1}{4}$ of the bar shaded. What fraction of the bar must be further shaded, so that $\frac{5}{8}$ of the bar is shaded altogether ?

Express the answer in its simplest form.

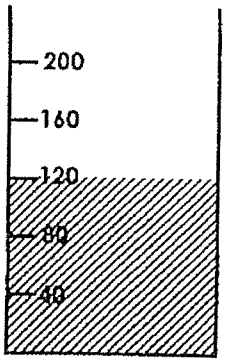
16. The four cylinders below contain some water. Clare wants to pour all the water from her cylinder into **one of the cylinders (A, B, or C)**. Which cylinder will hold all her water ?



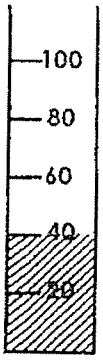

Clare's cylinder




A




B




C

## Section C

Questions 17-24 carry 3 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

[24 marks]

17. Alvin has 5070 LEGO bricks.
He has 1094 more bricks than Farhan.
a) How many bricks does Farhan have ?

Farhan has _____

Ans: (a) _____

b) How many bricks do the two boys have altogether ?

The two boys have _____

Ans: (b) _____

18. The Chin family attended a birthday dinner that ended at 19 20, according to the clock in the dining room.
However, the clock was 10 minutes slower.
The dinner lasted 1 h 30 min.
What was the actual time the dinner started ?

The actual time was _____

Ans: _____

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19. Uncle Daniel bought an apple pie and cut it into 12 pieces.
He gave $\frac{1}{4}$ of the pie to his niece and 4 pieces to his neighbour.
What fraction of the pie was left ?
Express your answer in its simplest form.

The fraction of the pie left was _____

Ans: _____

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20. Annie made 3 times as many clay stars as Eileen.
Linda made 75 fewer clay stars than Annie.
The three girls made a total of 919 clay stars.
How many clay stars did Eileen make ?

Eileen made _____

Ans: _____

21. Jimmy is making a shape pattern as shown below:

**1st** **Pattern continues.**

a) Draw the 12th shape in the given space below.

Ans: (a) _____

b) Given that the pattern continues, draw the 58th shape.

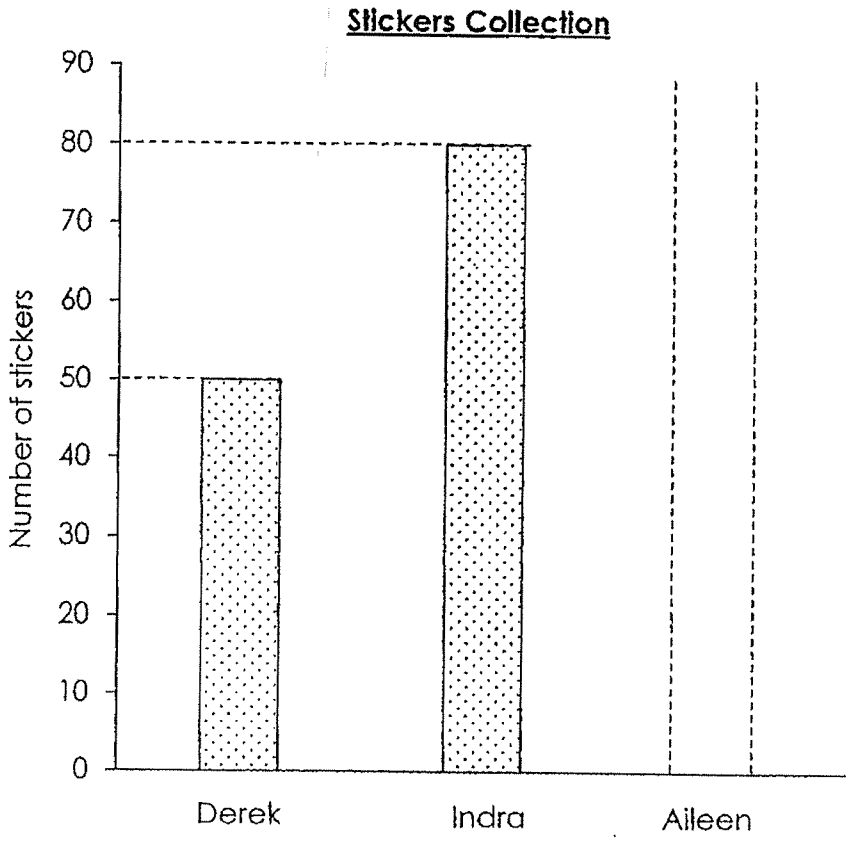
Ans: (b) _____

22. 2 badminton rackets and 1 basketball cost $102.50.
1 badminton racket and 2 basketballs cost $107.50.
What is the total cost of 1 badminton racket and 1 basketball ?

The total cost _____

Ans: _____

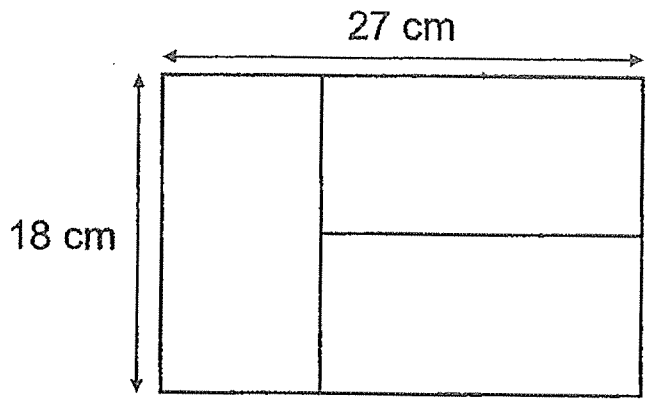
23. The incomplete graph shows the number of stickers collected by three friends, Derek, Indra and Aileen.
After Indra gave some stickers to Aileen, the three children had an equal number of stickers each.
How many stickers did Aileen have at first ?




Aileen had _____

Ans: _____

24. Samy arranged three pieces of tiles as shown below.
All the tiles were of the same size.
What was the area of each tile ?



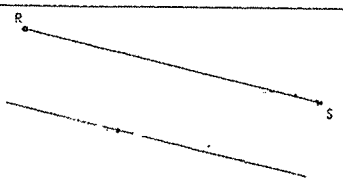
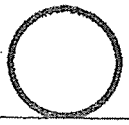
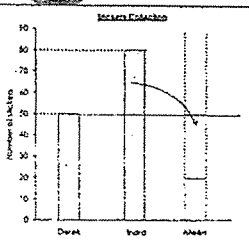

The area of each tile _____

Ans: _____

**End of Paper**

YEAR : 2023
LEVEL : PRIMARY 3
SCHOOL : TAO NAN SCHOOL
SUBJECT : MATHEMATICS
TERM : END OF YEAR EXAMINATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Q1 | 2 | Q2 | 2 | Q3 | 2 | Q4 | 3 | Q5 | 3 |
| Q6 | 3 | Q7 | 1 | Q8 | 4 | | | | |

| | | | |
|---|---|---|---|
| Q9 |  | Q10 | 400g |
| Q11 | $\frac{1}{3}, \frac{4}{9}, \frac{3}{6}$ | Q12 | 7 + 1 = 8 |
| Q13 | a) False<br>b) Not to possible | Q14 | 4 + 7 + 9 + 3 + 3 + 11 = 37<br>40 – 37 = 3 |
| Q15 | $\frac{3}{8}$ | Q16 | B |
| Q17 | a) 5070 – 1094 = 3976<br>Farhan has 3976 LEGO bricks.<br>b) 5070 + 3978 = 9040<br>The two boys have 9040 LEGO bricks. | Q18 | The actual time was 1815 |
| Q19 | $\frac{1}{4} = \frac{3}{12}$<br>$\frac{4}{12} + \frac{3}{12} = \frac{7}{12}$<br>$1 - \frac{7}{12} = \frac{5}{12}$<br>The fraction of the pie left was $\frac{5}{12}$. | Q20 | 919 + 75 = 994ml<br>994 ÷ 7 = 142<br>Eileen made 142 clay stars. |
| Q21 | a) 12 ÷ 4 = 3<br>Draw<br>  <br>b) 58 ÷ 4 = 14<br>R2 = moves 2 steps<br>  | Q22 | 102.50 + 107.50 = 210<br>210 ÷ 3 = $70<br>The total cost is $70 |
| Q23 |  <br>Aileen had 20 at first. | Q24 | 18 ÷ 2 = 9<br>18 x 9 = 162cm$^2$<br>The area of each tile is 162 cm$^2$ |

END