15 questions
20 marks
Total Time for Booklets A and B: 1 hour

NAME: $\qquad$ ( )

CLASS : PRIMARY 5 $\qquad$

## INSTRUCTIONS TO CANDIDATES

1. DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.
2. FOLLOW ALL INSTRUCTIONS CAREFULLY.
3. ANSWER ALL QUESTIONS.
4. SHADE YOUR ANSWERS IN THE OPTICAL ANSWER SHEET (OAS) PROVIDED.
5. YOU ARE NOT ALLOWED TO USE A CALCULATOR.

Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. For each question, four options are given. One of them is the correct answer. Make your choice $(1,2,3$ or 4$)$ and shade your answer on the Optical Answer Sheet.
$170000+9000+200+5=$ $\qquad$
(1) 70925
(2) 79025
(3) 79205
(4) 79250

2 The digit 4 in 458321 is in the $\qquad$ place.
(1) hundreds
(2) thousands
(3) ten thousands
(4) hundred thousands

3 Arrange these fractions from greatest to smailest.

$$
\frac{7}{6}, \frac{4}{3}, 1 \frac{1}{2}
$$

- Greatest Smallest
(1) $\frac{7}{6}, \frac{4}{3}, 1 \frac{1}{2}$
(2) $\frac{4}{3}, \frac{7}{6}, 1 \frac{1}{2}$
(3) $1 \frac{1}{2}, \frac{4}{3}, \frac{7}{6}$
(4) $1 \frac{1}{2}, \frac{7}{6}, \frac{4}{3}$

4 Which of the following is likely to be the mass of a pear?
(1) 12 g
(2) 120 g
(3) 1200 g
(4) 12000 g


5 Which decimal is greater than 0.08 but smaller than 0.17 ?
(1) 0.01
(2) 0.10
(3) 0.18
(4) 0.90

6 In the scale betow, what is the value of $A$ ?

(1) 2.70 kg
(2) 2.75 kg
(3) 2.90 kg
(4) 3.00 kg

7 A solid cuboid has a height of $8 \ddot{\mathrm{~cm}}$ and a square base of sides 5 cm . Find its volume.
(1) $40 \mathrm{~cm}^{3}$
(2) $200 \mathrm{~cm}^{3}$
(3) $240 \mathrm{~cm}^{3}$
(4) $320 \mathrm{~cm}^{3}$


8 A machine takes 2 min to print 6 posters. At the same rate, how long will it take to print 48 posters?
(1) 8 min
(2) 12 min
(3) 16 min
(4) 24 min

9 In the figure below, $A B$ and $C D$ are straight lines.


Which of the following is true?
(1) $\angle \mathrm{r}=\angle \mathrm{u}$
(2) $\angle \mathrm{q}+\angle \mathrm{r}=180^{\circ}$
(3) $\angle q+\angle r+\angle s=180^{\circ}$
(4) $\angle \mathrm{q}+\angle \mathrm{r}+\angle \mathrm{s}+\angle \mathrm{t}=360^{\circ}$

10 Round off 87954 to the nearest thousand.
(1) 80000
(2) 87000
(3) 88000
(4) 90000

11 The heights of four boys are given in the table below.

| Name | Height |
| :---: | :---: |
| Ali | 1.6 m |
| Bala | 1 m 32 cm |
| Chenle | 145 cm |
| Danial | $1 \frac{1}{2} \mathrm{~m}$ |

Who is the tallest?
(1) Ali
(2) Bala
(3) Chenle
(4) Danial

12 There are 24 yellow balloons and 56 purple balloons. What is the ratio of the number of purple to yellow balloons?
(1) $3: 7$
(2) $7: 3$
(3) $3: 10$
(4) $7: 10$

13 Which one of the following is the greatest in value?
(1) $32 \div 100$
(2) $32 \div 1000$
(3) $320 \div 100$
(4) $320 \div 1000$
14. $\frac{2}{3}$ of a number is 12 . What is $\frac{1}{2}$ of the number?
(1) 8
(2) 9
(3) 18
(4) 4

15 What is the least number of cubes to be added to the solid figure below to form a cuboid?

(1) 5
(2) 7
(3) 12
(4) 22

# 㵊 <br> MARIS STELLA HIGH SCHOOL (PRIMARY) <br> END-YEAR EXAMINATION <br> PRIMARY 5 MATHEMATICS <br> 26 OCTOBER 2023 <br> PAPER 1 <br> (BOOKLET-B) 

15 questions
25 marks
Total Time for Booklets A and B: 1 hour

## NAME: <br> $\qquad$ (

CLASS : PRIMARY 5 $\qquad$

## INSTRUCTIONS TO CANDIDATES

1. DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.
2. FOLLOW ALL INSTRUCTIONS CAREFULLY.
3. ANSWER ALL QUESTIONS.
4. WRITE YOUR ANSWERS IN THIS BOOKLET.
5. YOU ARE NOT ALLOWED TO USE A CALCULATOR.

| MARKS OBTAINED FOR |  |  |
| :--- | :---: | :--- |
| PAPER 1 (BOOKLET A) | 120 | Parent's Signature: |
| PAPER 1 (BOOKLET B) | 125 |  |
| TOTAL | $/ 45$ | Date: |

Questions 16 to 20 carry 1 mark each. Write your answers in the spaces provided.
For questions which require units, give your answers in the units stated.

16 Find the value of $50-(6+8) \div 2 \times 3$.

Answer:

17 The capacity of a container is 28 民. It takes 7 min to fill up the tank. What is the rate of water flowing into the tank per minute?

Answer: $\qquad$ $\ell / \mathrm{min}$

18 Find the largest multiple of 8 that is smaller than 60 .

$$
8,16,24,32,40
$$

Answer: $\qquad$

19 Find the value of $45 \div 200$. Express your answer as a fraction in its simplest form.

Answer: $\qquad$

20 Express $4 \frac{5}{9}$ as a decimal correct to 2 decimal places.

Answer: $\qquad$

$$
\begin{aligned}
& \text { Questions } 21 \text { to } 30 \text { carry } 2 \text { marks each. Show your workings clearly and write your } \\
& \text { answers in the spaces provided. For questions which require units, give your answers in } \\
& \text { the units stated. } \\
& \text { marks) }
\end{aligned}
$$

21 Eric saved $\$ 20000$ in a bank for one year. The bank paid $2 \%$ interest rate at the end of each year. How much did he earn as interest at the end of the year?

Answer: \$ $\qquad$

22 Kala had 40 more chocolates than Jackson at first. Jackson gave 10 of his chocolates to Kala. In the end, Kala has five times as many chocolates as Jackson. How many chocolates did Jackson have in the end?

Answer: $\qquad$
$23 \quad A B C$ is a right-angle triangle. Find the area of triangle $A B C$.


Do not write in this space.

Answer: $\qquad$ $\mathrm{cm}^{2}$

242 pencils and 4 notebooks $\cos 1 \$ 26.4$ pencils and 2 notebooks $\operatorname{cost} \$ 22$. Find the cost of 1 notebook.

Answer: \$ $\qquad$

25 Jan drew 3 ovals of different sizes to form a figure below. The areas of the 3 ovals were in the ratio $12: 10: 3$. She then shaded some parts of the figure as shown. What fraction of the figure was unshaded?

26 The table below show the charges for renting a bicycle at Pasir Ris Park.

| First hour | $\$ 6$ |
| :--- | :--- |
| Every additional 30 min or less | $\$ 2.50$ |

Adam rented a bicycle from 2.00 to 4.50 pm . How much did he pay for the rental?

Answer: $\$$ $\qquad$

27 The figure shows five roads drawn on a map in a square grid.


Name the two pairs of roads that are parallel to each other.

Answer: Road $\qquad$ and Road $\qquad$
Road $\qquad$ and Road $\qquad$

(a) In which 1 -month interval was there an increase in the number of books borrowed?
(b) There were $\qquad$ more books borrowed in March than April.

Answer: (a) $\qquad$ and $\qquad$ [1]
(b) $\qquad$ [1]

29 AB is one side of rhombus ABCD .
a) Use a pencil to complete the drawing of rhombus $A B C D$. Label points $C$ and $D$ clearly.

Do not write in this space.

Answer: (a) $\qquad$

30 In the figure below, a rectangular piece of paper is folded along a straight line EF. Find $\angle A F B$.

Do not write in


Answer: $\qquad$ -



MARIS STELLA HIGH SCHOOL (PRIMARY)
END-YEAR EXAMINATION
PRIMARY 5 MATHEMATICS
26 OCTOBER 2023
PAPER 2
17 questions
55 marks
Time: 1 h 30 min

## NAME:

$\qquad$ ( )

CLASS : PRIMARY 5 $\qquad$

## INSTRUCTIONS TO CANDIDATES

1. DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.
2. FOLLOW ALL INSTRUCTIONS CAREFULLY.
3. ANSWER ALL QUESTIONS.
4. SHOW YOUR WORKINGS CLEARLY AS MARKS ARE AWARDED FOR CORRECT WORKING.
5. WRITE YOUR ANSWERS IN THIS BOOKLET.
6. YOU ARE ALLOWED TO USE A CALCULATOR.

| MARKS OBTAINED FOR |  |  |
| :--- | :---: | :--- |
| PAPER 1 (BOOKLET A \& B) | 145 | Parent's Signature: |
| PAPER 2 | 155 |  |
| TOTAL | 1100 | Date: |

Questions 1 to 5 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided.

Do not write in this space.

1 What fraction of the rectangles below are shaded?


Answer: $\qquad$

2 In the figure below, $V Z Y$ is a straight line. Find the value of $\angle \mathrm{a}$.


Answer: $\qquad$ -
$\square$

3 The rectangular tank below is $\frac{3}{5}$ filled with water. How much more water is needed to fill the rectangular tank to the brim?

Do not write in this space.

Answer: $\qquad$ ml
$4 \quad W X Y Z$ is a trapezium and $W Z=W X$.


Each statement below is either true, false or not possible to tell from the information given. For each statement, put a tick $(\sqrt{ })$ in the correct column.

| Statement | True | False | Not <br> possible <br> to tell |
| :---: | :---: | :---: | :---: |
| a) $\angle X W Z+\angle W Z Y=180^{\circ}$ |  |  |  |
| b) $\angle W X Z=30^{\circ}$ |  |  |  |



5 The figure below shows a rectangle that has been cut into 4 triangles, $W, X, Y$ and $Z$. Find the area of triangle $Y$.


Do not write in this space.

Answer: $\qquad$ $\mathrm{cm}^{2}$

For questions 6 to 17, show your workings clearly and write your answer in the spaces provided. The number of marks available is shown in the brackets [ ] at the end of each question or part-question. (45 marks)

6 A baker had some flour. After he used $4 \frac{3}{5} \mathrm{~kg}$ of flour to bake a cake, he bought another $2 \frac{1}{2} \mathrm{~kg}$ of flour. He had 9 kg of flour now. How much flour did he have at first?

Do not write in this space.

Answer: $\qquad$ [3]

7 In a carpark, there are cars and bicycles. There are 24 more cars than bicycles. There are 276 wheels altogether in that carpark. How many bicycles are there altogether?

Answer: $\qquad$
$\square$

8 Container A contained 1.05 kg of rice. Container $B$ contained 3.09 kg of rice. After an equal amount of rice was removed from each container, Container B now has 4 times as much rice as Container A. How múch rice was removed from each container? Give your answer in kilograms.

Do not write in this space.

Answer: $\qquad$ [3]

9 The average mass of 6 boys in a room was 52 kg . When 2 boys left the room, the average mass of the boys left was 48 kg . What was the average mass of the 2 boys who left the room?

Answer: $\qquad$ [3]

10 Sheena was given $\$ 8$ as pocket money each day. On Mondays to Fridays, she spent $\$ 5.60$ every day and saved the rest. She did not spend any money on the weekends and saved her pocket money. Sheena started saving on Monday. How many days would it take for Sheena to save $\$ 35.20$ ?

Do not write in this space.
$\qquad$ [3]
$\square$
(a) A total of $\qquad$ students chose Badminton and Table Tennis.
(b) $\qquad$ \% of the students chose Basketball

Do not write in this space.

Answer: (a) $\qquad$ [2]
(b) $\qquad$ [1]

12 The ratio of the number of apples to mangoes sold by Shop $A$ is $4: 3$. The ratio of the number of apples to mangoes sold by Shop B is $3: 2$. Shop $A$ and $B$ sold an equal number of mangoes. 70 more apples were sold in Shop $B$ than in Shop $A$. How many apples and mangoes were sold in total in Shop B?
$\qquad$ [4]

13 The figure below is not drawn to scale. It is made up of rhombus CDEF and triangles $C G F$ and $A B G . A B=B G$. Find
(a) $\angle A B G$
(b) $\angle \mathrm{BCH}$

Answer: (a) $\qquad$ [1]
(b) $\qquad$

$\square$

14 The brochure below shows the details on a sale in Shop $A$.


Do not write in this space.
(a) Anita bought 2 of the same leather bags during a sale in Shop A. The usual price of the leather bag was $\$ 450$. Find the amount of discount she received for both bags.
(b) Meili bought a backpack at the sale. The usual price of the backpack was $40 \%$ of the usual price of the leather bag. What was the discounted price of the backpack?
$\qquad$
(b) $\qquad$ [2]

15 Siti's mother gave her some money. Siti had just enough money to buy 68 files at the usual price. During a sale, Siti was given a discount of $\$ 3.40$ for each file. As a result, she was able to buy 19 more files and had $\$ 3.20$ left.
(a) What was the price of one file during the sale?
(b) How much did Siti's mother give her?

Answer: (a) $\qquad$ [3]
(b) $\qquad$ [2]

Do not write in this space.

16 Ali and Betty had a total of $\$ 5700$. After Ali spent $\frac{1}{3}$ of his money and Betty spent $\frac{2}{5}$ of her money, they had an equal amount left. Betty then used $\frac{3}{4}$ of the amount she had left to buy a laptop and gave the remaining amount to her sister and brother. Betty's brother received 3 times the amount that Betty's sister received.
a) How much did Betty have at first?
b) How much did Betty's sister receive?
(b) $Z R S$ and $Z T U$ are right-angle triangles. $W Q=Q R, Z S=5 \mathrm{~cm}$ and $W V=17 \mathrm{~cm}$.
a) What is the length of $R Q$ ?
b) Find the total area of the figure below.

Do not write in this
space.


Answer: (a) $\qquad$ [1]
(b) $\qquad$

End of Paper 2

SCHOOL : MARIS STELLA HIGH SCHOOL
LEVEL : PRIMARY 5
SUBJECT : MATHEMATICS
TERM : 2023 SA2

PAPER 1 (BOOKLET A)

| Q1 | 3 | Q2 | 4 | Q3 | 3 | Q4 | 2 | Q5 | 2 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Q6 | 1 | Q7 | 2 | Q8 | 3 | Q9 | 3 | Q10 | 3 |
| Q11 | 1 | Q12 | 2 | Q13 | 3 | Q14 | 2 | Q15 | 2 |

## PAPER 1 (BOOKLET B)

| Q16 | 29 |
| :---: | :---: |
| Q17 | $4 \mathrm{l} / \mathrm{min}$ |
| Q18 | 56 |
| Q19 | $\frac{9}{40}$ |
| Q20 | 4.56 |
| Q21 | $\frac{2}{100} \times \$ 20000=\$ 400$ |
| Q22 | $\begin{aligned} & 4 u=60 \\ & 1 u=15 \end{aligned}$ |
| Q23 | $24 \mathrm{~cm}^{2}$ |
| Q24 | $\begin{aligned} & 2 P+4 N=\$ 26 \\ & 4 P+2 N=\$ 22 \end{aligned}$ <br> Make $P$ the same by multiplying 2 to the first statement: $4 P+8 N=\$ 52$ <br> Difference: $8 \mathrm{~N}-2 \mathrm{~N}=6 \mathrm{~N}$ $\begin{aligned} & 6 \mathrm{~N}=\$ 52-\$ 22=\$ 30 \\ & 1 \mathrm{~N}=\$ 5 \end{aligned}$ |
| Q25 | $\begin{aligned} & \text { Total area }=12 u \\ & \text { Unshaded area }=10 u-3 u=7 u \\ & \text { Fraction unshaded }=\frac{7}{12} \end{aligned}$ |
| Q26 | \$16 |
| Q27 | Road C and Road D; Road B and Road E |
| Q28a | January and February |


| Q28b | 4 |
| :---: | :---: |
| Q29a |  |
| Q29b | $70^{\circ}$ |
| Q30 | $\begin{aligned} & \angle C F E=180^{\circ}-58^{\circ}-90^{\circ}=32^{\circ} \\ & \angle \mathrm{AFB}=90^{\circ}-32^{\circ}-32^{\circ}=26^{\circ} \end{aligned}$ |

## PAPER 2

| Q1 | $\frac{5}{12}$ |
| :---: | :---: |
| Q2 | $58^{\circ}$ |
| Q3 | $\frac{2}{5} \times 12 \times 8 \times 35=1344 \mathrm{ml}$ |
| Q4a | True |
| Q4b | False |
| Q5 | $\begin{aligned} & 42 \div 3=12 \mathrm{~cm}^{2} \\ & 16 \div 2=8 \mathrm{~cm}^{2} \\ & \text { Area of } Y=12+8=\mathbf{2 0} \mathbf{c m}^{2} \end{aligned}$ |
| Q6 | $\begin{aligned} & 9-2 \frac{1}{3}=6 \frac{1}{2} \mathrm{~kg} \\ & 6 \frac{1}{2}+4 \frac{3}{5}=11 \frac{1}{10} \mathrm{~kg} \end{aligned}$ |
| Q7 | $\begin{aligned} & 24 \times 4=96 \\ & 276-96=180 \end{aligned}$ <br> Group 1 car and 1 bicycle as a set: total 6 wheels $180 \div 6=30$ |
| Q8 | $\begin{aligned} & 3 \mathrm{u}=3.09-1.05=2.04 \mathrm{~kg} \\ & 1 \mathrm{u}=0.68 \mathrm{~kg} \\ & \text { Removed }=1.05-0.68=0.37 \mathrm{~kg} \end{aligned}$ |
| Q9 | Average mass of 6 boys $=6 \times 52=312 \mathrm{~kg}$ <br> Average mass of 4 boys $=4 \times 48=192 \mathrm{~kg}$ <br> Average mass of the 2 boys $=(312-192) \div 2=60 \mathrm{~kg}$ |
| Q10 | Total pocket money for the week $=\$ 8 \times 7=\$ 56$ Total saved in a week $=\$ 56-\$(5.60 \times 5)=\$ 28$ $\$ 35.20-\$ 28=\$ 7.20$ <br> Amount saved on a weekday $=\$ 8-\$ 5.60=\$ 2.40$ <br> $\$ 7.20 \div \$ 2.40=3$ <br> $3+7=10$ days |


| Q11a | $\begin{aligned} & \text { Total units }=16 u \\ & 16 u=80 \\ & 1 u=5 \\ & 10 u=50 \end{aligned}$ |
| :---: | :---: |
| Q11b | $\frac{30}{80} \times 100 \%=37.50 \%$ |
| Q12 | $\frac{\text { Shop } A}{A: M}$ $\frac{\text { Shop } B}{A: M}$ <br> $4: 3$  <br> $8: 62^{2}$ $3: 2$ <br>  $9: 62^{2}$ <br> $1 \mathrm{u}=70$  <br> $15 \mathrm{u}=70 \times 15=1050$  |
| Q13a | $\angle \mathrm{ABG}=180^{\circ}-65^{\circ}-65^{\circ}=50^{\circ}$ |
| Q13b | $\begin{aligned} & \angle D C F=180^{\circ}-112^{\circ}=68^{\circ} \\ & \angle B C H=180^{\circ}-33^{\circ}-68^{\circ}-50^{\circ}=29^{\circ} \end{aligned}$ |
| Q14a | $\frac{35}{100} \times \$(450+450)=\$ 315$ |
| Q14b | $\begin{aligned} & \text { Usual price of backpack }=\frac{40}{100} \times \$ 450=\$ 180 \\ & \text { Discounted price }=\frac{65}{100} \times \$ 180=\$ 117 \end{aligned}$ |
| Q15a | $\begin{aligned} & \text { Total discount }=68 \times \$ 3.40=\$ 231.20 \\ & 19 \mathrm{~F}=\$ 231.20-\$ 3.20=\$ 228 \\ & 1 \mathrm{~F}=\$ 228 \div 19=\$ 12 \end{aligned}$ |
| Q15b | Total files bought $=68+19=87$ <br> Amount given $=87 \times \$ 12+\$ 3.20=\$ 1047.20$ |
| Q16a | $\begin{aligned} & 19 u=\$ 5700 \\ & 1 u=\$ 300 \\ & 10 u=\$ 3000 \end{aligned}$ |
| Q16b | Amount Betty had left $=\frac{3}{5} \times \$ 3000=\$ 1800$ <br> Amount given to siblings $=\$ 1800 \div 4=\$ 450$ <br> Amount sister received $=\$ 450 \div 4=\$ 112.50$ |
| Q17a | Area of QRST $=16 \times 4=64 \mathrm{~cm}^{2}$ <br> Length of $R Q=8 \mathrm{~cm}$ |
| Q17b | Area of $\triangle S R Z=20 \mathrm{~cm}^{2}$ <br> Area of $\triangle Z T U=58.5 \mathrm{~cm}^{2}$ <br> Area of QUVW $=17 \times 8=136 \mathrm{~cm}^{2}$ <br> Total area $=64+20+58.5+136=278.5 \mathrm{~cm}^{2}$ |

