PSLE Index No



MARIS STELLA HIGH SCHOOL (PRIMARY) PRELIMINARY EXAMINATION PRIMARY 6 MATHEMATICS 18 AUGUST 2023 PAPER 1

(BOOKLET A)

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

NAME :

CLASS: PRIMARY 6

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. (20 marks)

- 1. Which of the following is seventy-five thousand and thirty in numerals?
 - (1) 7530
 - (2) 75 030
 - (3) 75 300
 - (4) 750 030
- 2. The diagram shows a tablet used in a lesson in the classroom. Which of the following could be the mass of the tablet?
 - (1) 8 g
 - (2) 8 kg
 - (3) 80 kg
 - (4) 800 g



- 3. Arrange these fractions from the smallest to the largest.
 - $\frac{4}{5}$, $\frac{3}{7}$, $\frac{2}{3}$

<u>Smallest</u>			Largest
(1)	$\frac{2}{3}$,	$\frac{3}{7}$,	<u>4</u> 5
(2)	$\frac{3}{7}$,	$\frac{4}{5}$,	$\frac{2}{3}$
(3)	$\frac{3}{7}$,	$\frac{2}{3}$,	$\frac{4}{5}$
(4)	<u>4</u> 5 ·	$\frac{2}{3}$,	$\frac{3}{7}$

- 4. Which number is the largest?
 - (1) 0.78
 - (2) 0.87
 - (3) 0.708
 - (4) 0.807

5. Express $3\frac{2}{25}$ as a decimal.

- (1) 3.2
- (2) 3.8
- (3) 3.08
- (4) 3.22
- 6. Express 3080 cm in m.
 - (1) 3.08 m
 - (2) 3.8 m
 - (3) 30.08 m
 - (4) 30.8 m
- 7. Round 3.465 to 2 decimal places.
 - (1) 3.40
 - (2) 3.46
 - (3) 3.47
 - (4) 3.50
- 8. In a basket, there were 4 apples, 8 pears and 12 papayas. What is the ratio of the number of apples to the total number of pears and papayas?
 - (1) 1:5
 - (2) 5:1
 - (3) 1:2
 - (4) 1:3

9. Which 2 lines are parallel to each other?



- (1) AD and DG
- (2) AG and BF
- (3) AG and CE
- (4) BF and CE

10. Which of the following is a net of a cube?









3

(2)

(4)

11. The table shows the marks scored by 5 students in a test.

Studente	Λ N	R	C	D	E
Students	~			<u>^</u>	10
Marks	20	30	10	20	40
					wires a statement of a

Which of the following bar graphs represents the information shown in the table above?



12. In the figure, AB, CD and EF are straight lines. Find $\angle AOF$.



13. Tom and Jerry were standing at X, facing the same place at first. Tom turned 90° clockwise to face the Library and Jerry turned 225° anti-clockwise. Where will Jerry face in the end?



- (1) Church
- (2) Post Office
- (3) Park
- (4) School

14. The table below shows the range of marks scored by a group of 220 students in a competition.

Marks	Number of students
70	24
75	44
80	108
85	36
90	8

20% of the students in this group qualified for the next round. What is the minimum score needed to qualify for the next round?

- (1) 75
- (2) 80
- (3) 85
- (4) 90
- **15.** At a party, 20% of the people were men, 55% of the remaining people were women and the rest were children. There were 100 men. How many children were there at the party?
 - (1) 125
 - (2) 180
 - (3) 220
 - (4) 500

END OF BOOKLET A GO TO BOOKLET B

PSLE Index No.



MARIS STELLA HIGH SCHOOL (PRIMARY) PRELIMINARY EXAMINATION PRIMARY 6 MATHEMATICS 18 AUGUST 2023 PAPER 1 (BOOKLET B)

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

NAME :_

CLASS : PRIMARY 6

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)	/ 20	Parent's Signature:		
PAPER 1 (BOOKLET B)	/ 25			
TOTAL	/ 45	Date:		

16.	Find the value of $(74 - 36) \times 10 + 6 \div 2$
	Answer :
7.	How many sixths are there in $5\frac{1}{3}$?
	Answer :
3.	Find the value of 12.2 – 5.47
	Answer :



			(20 marks)	wr thi
21.	(a)	Find the value of $1 - \frac{1}{3} - \frac{1}{5}$		spa
			Answer : (a)	
	(b)	Find the value of 11 $\div \frac{3}{5}$		
			Answer: (b)	
22.	quesi	se answered 20 questions in a s tions and twice as fong for each ay at 1.20 p.m. At what time did	survey. She took 3 min for each of the first 10	
22.	quesi	uons and twice as long for each	survey. She took 3 min for each of the first 10	
22.	quesi	uons and twice as long for each	survey. She took 3 min for each of the first 10	
22.	quesi	uons and twice as long for each	survey. She took 3 min for each of the first 10	
22.	quesi	uons and twice as long for each	survey. She took 3 min for each of the first 10	
22.	quesi	uons and twice as long for each	survey. She took 3 min for each of the first 10	
22.	quesi	uons and twice as long for each	survey. She took 3 min for each of the first 10	

From the figure below, what is the minimum number of unit cubes that needs to be 23. Do not added to form a cuboid? write in this space. Answer : ___ 24. The ratio of the number of stickers Kingston had to the number of stickers Tim had was 8 : 5. After Kingston gave away 44 stickers, Tim had twice as many stickers as Kingston. How many stickers did they have at first? Answer : _

.



11

SCORE (Go on to the next page)

27.	A para		Do not write in
	(a)	Draw a triangle that is \pm the area of the parallelogram ABCD Label (LEEG.	his Space,
	(b)	Draw a parallelogram that has twice the perimeter as the parallelogram ABCD. Label it WXYZ.	- p u u U,
		triangle EFG and parallelogram WXYZ should not overlap parallelogram ABCD each other.	
		ВСС	
	A		
28.		had \$5x. After buying apples at 60¢ each, he had \$2x left. How many apples dy buy?	
		Answer :	

98.₅₀,



End of Booklet B

SCORE

PSLE Index No



MARIS STELLA HIGH SCHOOL (PRIMARY) PRELIMINARY EXAMINATION PRIMARY 6 MATHEMATICS 18 AUGUST 2023 PAPER 2

17 questions 55 marks Time: 1 h 30 min

NAME :

CLASS : PRIMARY 6

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 <u>ALLOWED</u> TO USE A CALCULATOR.

М	ED FOR	
PAPER 1 (BOOKLET A & B)	/ 45	Parent's Signature:
PAPER 2	/ 55	
TOTAL	/100	Date:



SCORE (Go on to the next page)





In which 1-month interval was the percentage increase of toys sold the most?

Answer : _____ to _____

SCORE (Go on to the next page) 5. A 1 m wide path cuts across a rectangular field along its length and breadth, forming a path as shown. What is the area of the path?



5. Mr Ien	Lee had a piece of wire 26y cm long. He used the wire to form a rectangle, with gth and breadth measuring 2y cm and 20 cm.
(a)	Express the length of the remaining wire in terms of y.
	Answer : (a)[1
(b)	Mr Lee used the remaining wire to make a square. If y = 4, what was the length of one side of the square?
	Answer : (b)[2
	e diagram below shows 4 identical right-angled isosceles triangles with a idrant within it. The quadrant has a radius of 7.5 cm.
qua	
qua V	adrant within it. The quadrant has a radius of 7.5 cm. Take $\pi = 3.14$
qua	adrant within it. The quadrant has a radius of 7.5 cm. Take $\pi = 3.14$



9. At 8 a.m., Joey travelled from Town X to Town Y at a constant speed of 120 km/h. At Do not the same time, Madeline travelled from Town Y to Town X at a constant speed of 90 write in km/h. At 9.20 a.m., they were 50 km apart after driving past each other. What is the this distance between Town X and Town Y?

space.

Answer	•		[3]		
--------	---	--	-----	--	--

SCORE (Go on to the next page)



Answer : _____[3]

11. The table shows the scores of 4 students in a Math test. Some of the scores are covered by an ink patch.

Name	Test Score
Aloysius	6
Benedict	8
Charles	7
Dominic	8 2

Do not write in this space.

The average score of Charles and Dominic is 80. The average score of Aloysius, Benedict and Charles is 74. What is the largest possible score that Benedict has achieved?

Answer : _____ [3]

SCORE (Go on to the next page)

12.	Peter had some stickers. He gave half of them and an additional 60 stickers to	Do not
	Samuel. Next, he gave half of the remainder of the stickers and an additional 30	write in
	stickers to Troy. He then gave 40 stickers to each of his 3 siblings and had 100	this
	stickers left. How many stickers did Peter have at first?	space,
		1

*		[4]	
	:	*	:[4	:[4]

13.	There were 400 adults attending a concert in a stadium. During the break. $\frac{1}{3}$ of the	Do not write in
	men and $\frac{3}{5}$ of the women left the stadium. 224 adults remained in the stadium	space.
	How many women were there in the stadium at first?	

Answer		[4]	ł
74104401	•	 ודו	l

.



In the morning, Mrs Chen baked muffins of 3 different flavours - Chocolate, strawberry and vanilla. The ratio of the number of choclate muffins to the number of Do not strawberry muffins was 3 : 5 There were 28 more strawberry muffins than chocolate write in muffins. There were 10 more vanilla muffins than strawberry muffins. this space. (a) How many vanilla muffins did she bake in the morning? [2] Answer: (a) _____ In the afternoon, she baked some more chocolate and vanilla muffins. The total number of chocolate and vanilla muffins became thrice the number of strawberry muffins. The percentage increase of the chocolate muffins was between 8% to 10%. (b) How many vanilla muffins did she bake in the afternoon? [3] Answer : (b)

15.



17.	In June, Mr Tan saved 20% of his salary. In July, his monthly salary increase by	Do not
	\$600 and he saved 15% of his new monthly salary. Given that Mr Tan saved the	write in this
	same amount of money in both months. find the percentage increase in Mr Tan's	space.
	salary.	

.

×

i.

Answer : _____

__ [5]

End of Paper 2

SCHOOL	:	Maris Stellar PRIMARY SCHOOL
LEVEL	:	PRIMARY 6
SUBJECT	:	MATH
TERM	:	2023 Prelims

PAPER 1 BOOKLET A

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

PAPER 1 BOOKLET B



Pg1

- -

Q23)	23
Q24)	104
Q25)	0839
Q26)	Not possible to tell False
Q27	
Q28	$\frac{3x}{0.6}$
Q29	64
Q30	80

PAPER 2

Q1a)	$38 + 12 + 10 = 6060 \div 3 = 20$
Q1b)	$\frac{20 * 4 = 80}{\frac{10}{80} * 100 = 12.5\%}$
Q2)	250 + 180 + 300 + 230 = 960 $960 \div 4 = 240$
Q3)	$\frac{1}{4} \div 3 * 8 = \frac{2}{3}$ 1200 = $\frac{1}{3}$ $\frac{3}{3} = 1200 * 3 = 3600$
Q4)	March to April
Q5)	18 + 8 = 26 26 - 1 = 25

Q6a)	22y-40km
	-
Q6b)	(22 * 4) - 40 = 48
	$48 \div 4 = 12cm$
Q7)	3.14 * 7.5 * 7.5 = 126.625
	7.5 * 2 = 15
	15 * 5 = 225
	225 - 176.625 = 48.375
Q8)	180 - 30 = 150
Q9)	$1 hour 20 mins = 1\frac{1}{3}h$
	$1\frac{1}{3} * 120 = 160$
	160 + 120 - 50 = 230
Q10)	$20^3 = 8000$
	60 * 20 = 1200
[20 * 20 = 400
014	$8000 \div 1600 = 5cm$
Q11)	80 * 2 = 160
	160 - 82 = 78
	74 * 3 = 222
012	222 - 78 - 60 = 84
Q12)	120 + 30 + 100 = 250
	60 + 250 + 250 = 560
042	560 * 2 = 1120 2 2
Q13)	$\frac{2}{2}m + \frac{2}{5}w = 224$
	$\frac{2}{3}m + \frac{2}{5}w = 224$
	$\frac{1}{5}m + \frac{1}{5}w = 112$
	3 3 - m + -m - 112 + 2 - 226
	$\frac{3}{3}m + \frac{3}{5}w = 112 * 3 = 336$
	$\frac{M+W=400}{2}$
	$\frac{2}{5}w = 400 - 336 = 65$
	$\frac{1}{5}w = 65 \div 2 = 32$
	$\frac{1}{5}w = 65 \div 2 = 32$ $\frac{5}{5}w = 32 * 5 = 160$
Q14a)	$180 - 90 - 36 = 54^{\circ}$
Q14b)	$(36+0) \div 2 = 13^{\circ}$
	$180 - 90 - 13 = 77^{\circ}$
Q15a)	C: S
1	3:5
	2u = 28 $1u = 14$
	5 * 14 = 70
	70 + 10 = 80
L,	

Q15b)	70 * 3 = 210
	14 * 3 = 42
	8% increase = 3.20
	10% <i>increase</i> = 4.20
	42 + 4 = 46
	210 - 46 - 80 = 84
	Type equation here.
Q16a)	$\frac{1}{-}$ * 3. 14 * 8 * 8 = 50. 24
	$- \frac{1}{4} = 3.14 \times 8 \times 8 = 50.24$
	8 * 3 = 24
	$24 \div 2 = 12$
	12 * 12 * 3.14 = 452.16
	50.24 * 6 = 301.44
	$452.16 - 301.44 = 15072 cm^2$
Q16b)	3.14 * 24 = 75.36
	1
	$\frac{1}{4}$ * 3.14 * 16 = 12.56
	12.26 * 6 = 75.36
	75.36 * 2 = 150.72
	150.72 + 8 + 8 = 166.72cm
Q17	15% * 600 = 90
	90 = 5%
	100% = 1800
	600 1
	$\frac{1000}{1800} * 100\% = 33\frac{1}{3}\%$