# PRIMARY 4 MATHEMATICS 25 OCTOBER 2016 BOOKLET A

20 questions			
40 marks			
Total time for Booklets A and B: 1 h 45 min	·		
NAME:		)	
CLASS : PRIMARY 4			

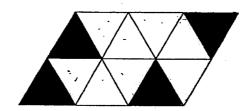
DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.
FOLLOW ALL INSTRUCTIONS CAREFULLY.
ANSWER ALL QUESTIONS.

							*
-	-		en.				
	•						
							•
					٨		
					•		
			-	-			
		·: .					
						·	
			•		•		

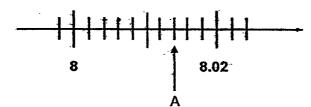
### Section A (20 $\times$ 2 = 40 marks)

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.

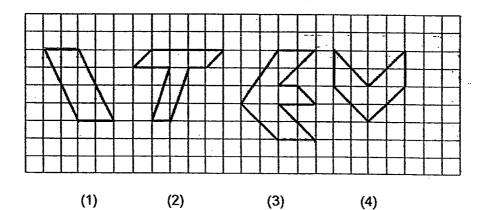
- 1. Which of the following numbers when rounded off to the nearest hundred becomes 81 500?
  - (1) 81.444
  - (2) 81 496
  - (3) 81 550
  - (4) 81 594.
- 2. Which of the following is a multiple of both 4 and 6?
  - (1) 8
  - (2) 2
  - (3) 12°
  - (4) 18
- 3. The figure shown is made up of identical triangles. What fraction of the figure is shaded?
  - (1)  $\frac{4}{8}$
  - (2)  $\frac{4}{12}$
  - (3)  $\frac{8}{12}$
  - (4)  $\frac{8}{4}$



4. Which of the following decimals is represented by letter A in the number line?



- (1) 8.007
- (2) 8.012
- (3) 8.014
- (4) 8.017
- 5. Which one of the following fractions is not in its simplest form?
  - (1)  $\frac{4}{12}$
  - (2)  $\frac{3}{5}$
  - (3)  $\frac{4}{9}$
  - (4)  $\frac{9}{20}$
- 6. Which one of the following figures in the square grid below has both parallel lines and perpendicular lines?

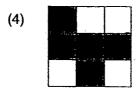


7. Which figure below does not have a line of symmetry?

(1)



(3)



- 8. Mrs Tan went to the market with \$98.40. After buying 6 kg of prawns, she had \$24.60 left. How much did each kilogram of prawns cost?
  - (1) \$4.10
  - (2) \$12.30
  - (3) \$16.40
  - (4) \$73.80
  - 9. Round off each number in the table to the nearest tens. Which two numbers will give an estimated sum of 4600?

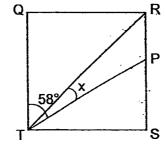
Α	В	С	D
2093	2195	2306	2404

(1) A and B

program

- (2) A and C
- (3) B and C
- (4) B and D

- 10. Jane had 600 beads at first. She used  $\frac{7}{12}$  of the beads to make a necklace and  $\frac{1}{3}$  of the beads to make a bracelet. How many beads had Jane left?
  - (1) 50
  - (2) 200
  - (3) 350
  - (4) 550
- 11. 78 000 students watched a concert in a stadium. There were 8800 more girls than boys. How many girls were there in the stadium?
  - (1) 30 200
  - (2) 34 600
  - (3) 43 400
  - (4) 47 800
- 12. Six years ago, John's age was a multiple of 5. His age now is a multiple of 3. How old is John now?
  - (1) 21
  - (2) 24
  - (3) 27
  - (4) 30
- 13. Figure QRST is a square. RT is a straight line and  $\angle$ QTP = 58°. Find  $\angle$  x.
  - (1) 13°
  - (2) 16°
  - (3) 29°
  - (4) 32°



14. The opening hours of a restaurant is shown below.

### **Opening hours**

Monday to Friday 1100 to 1400 1800 to 2130

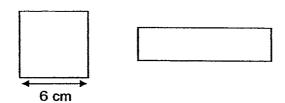
Saturday and Sunday 1100 – 1430 1745 – 2200

How long is the restaurant open each day during the weekend?

(1) 3 h 30 min

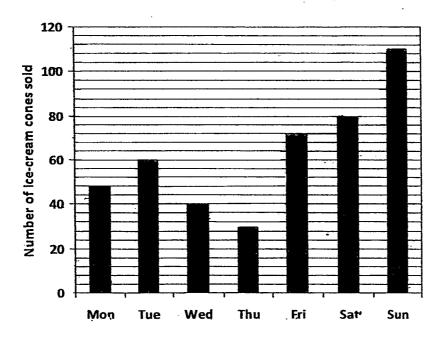
3**%** . .

- (2) 6 h 30 min
- (3) 7 h 45 min
- (4) 9 h 45 min
- 15. The rectangle and square below have the same perimeter. The breadth of the rectangle is half the side of the square. What is the length of the rectangle?



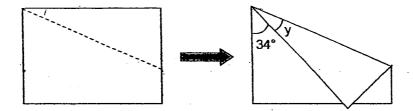
- (1) 3 cm
- (2) 9 cm
- (3) 12 cm
- (4) 15 cm
- 16. Mary has 4 times as much money as her brother. They have a total of \$62. How much must Mary give her brother so that they have an equal amount of money in the end?
  - (1) \$12.40
  - (2) \$15.50
  - (3) \$18.60
  - (4) \$31.00

The graph below shows the number of ice-cream cones sold at a store. Study the graph carefully and answer Questions 17 and 18.



- 17. On which two days were a total of 120 ice-cream cones sold?
  - (1) Mon and Fri
  - (2) Tue and Sat
  - (3) Wed and Sun
  - (4) Thu and Fri
- 18. Each ice-cream cone was sold for \$2. Find the total amount of money collected from the sale of ice-cream cones on weekdays.
  - (1) \$250
  - (2) \$255
  - (3) \$500
  - (4) \$510

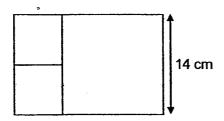
19. A rectangular piece of paper is folded along the dotted line as shown below.



What is the size of  $\angle$  y?

- (1) 22°
- (2) 28°
- (3) 34°
- (4) 56°

20. The figure below is made up of 3 squares. What is the area of the figure?



- (1)  $70 \text{ cm}^2$
- (2) 98 cm<sup>2</sup>
- (3) 112 cm<sup>2</sup>
- (4) 294 cm<sup>2</sup>

End of-Section A

Go on to Booklet B



## MARIS STELLA HIGH SCHOOL (PRIMARY) SEMESTRAL ASSESSMENT 2 PRIMARY 4 MATHEMATIC: 25 OCTOBER 2016 BOOKLET B

25 questions

60 marks

Total time for Booklets A and B: 1 h 45 min

NAME :
CLASS: PRIMARY 4

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD FOLLOW ALL INSTRUCTIONS CAREFULLY.
ANSWER ALL QUESTIONS.

MARKS OBTAINED:
BOOKLET A:/ 40
BOOKLET B: / 60
TOTAL :/ 100
Parent's Signature:

### **Section B (20 x 2 = 40 marks)**

Show your working clearly in the spaces below each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

21.	Write 1	forty	thousand	and 1	fourteen	in	figures.

Do not write in this space.

22	Two factors of 27 are 1 a	nd 27 What ar	a the other two	factors of 272

Answer: a	and
-----------	-----

Answer: \_\_\_\_\_

23. Write the missing number in the number pattern below.

Answer:

24. 
$$\frac{5}{6} = \frac{10}{10}$$

What is the missing number in the box?

Answer:

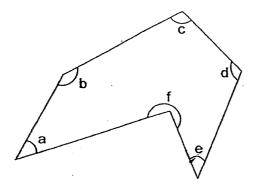
25. Find the value of $1 + \frac{1}{2} - \frac{1}{6}$ . Express the answer in its simplest form.	Do not write in this space.
Answer:	
26. Arrange the following numbers in order from the greatest to the smallest.	
5.032, 5.320, 5.203	
Answer:,, (smallest)	
27. Find the value of 5.76 x 8.	
Answer:	-
28. Express $\frac{18}{1000}$ as a decimal.	

SCORE (Go on to the next page)

Answer:

29. In the figure below, name the two angles that are smaller than 90°.

Do not write in this space.



Answer: \_\_\_\_ and \_\_\_\_

30. Mrs Goh mixed 6.84 kg of bread flour with 5.16 kg of oat flour. She then repacked the flour into packets of 500 g. How many packets did she use to contain all the flour she mixed?

Answer: \_\_\_\_

31. Sally had some cookies. She gave  $\frac{7}{9}$  of them to Susie and 12 cookies to her neighbour. She then had 16 cookies left. How many cookies did Sally have at first?

Answer:

32.	A bag costs 3 times as much as a storybook. The difference in the cost of
	the two items is \$16.40. How much does the bag cost?

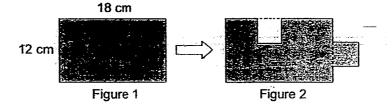
Do not write in this space.

Answer:	\$	
---------	----	--

33. The total mass of 3 tables is the same as the total mass of 4 chairs. The mass of a table is 2 kg heavier than a chair. Find the mass of a table.

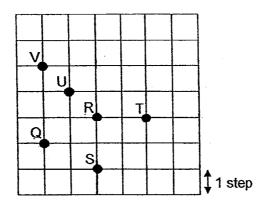
Answer: \_\_\_\_\_ kg

34. A square of side 4 cm is cut out from a rectangular paper. The square is put back to the paper to form Figure 2. Find the perimeter of Figure 2.



Answer: \_\_\_\_ cn

Study the diagram below and answer Questions 35 and 36.



N <del>|</del>

Do not write in this space.

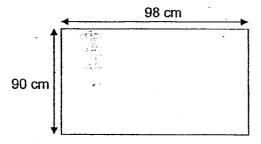
35. Kelly is standing at point U and facing North. At which point will she be facing if she makes a 225° turn anti-clockwise?

Answer:	<b>Point</b>	

- 36. Jonathan is standing at point R facing North. He moves around in the diagram above following the instructions below:
  - a. Walk 3 steps to the North.
  - b. Turn to the East and walk 2 steps forward.
  - c. Make a 90° turn clockwise and walk 2 steps forward.

Put a cross (X) in the diagram above to show where Jonathan is standing in the end.

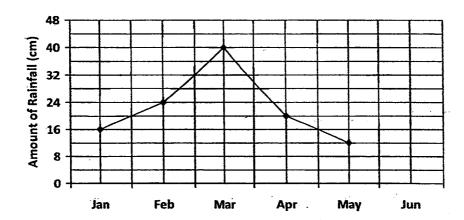
37. At most how many pieces of square paper, each of side 6 cm long, can be cut from a large piece of rectangular paper measuring 98 cm by 90 cm?



The line graph shows the amount of rainfall collected from January to June.

Use the information below to answer Questions 38 – 40.

Do not write in this space.



38. A total of 140 cm of rainfall was collected from January to June. How much rain was collected in the month of June?

Answer:

39. In which months were the amount of rainfall collected less than 20 cm?

Answer:

40. During which one-month period was the decrease in the amount of rainfall collected the greatest?

Answer: Between \_\_\_\_ and

Work out the answers for each of the following questions. All workings must be shown.

- 41. Tim has \$150. He spent \$26.80 on food and \$13.60 more on transport than on food. He then spent the rest of his money on 6 books.

Do not

space.

write in this

- (a) How much did Tim spend on food and transport altogether?
- (b) How much did Tim spend on each book?

Answer: (a) \_\_\_\_\_ [2]

(b) \_\_\_\_\_\_ [2

42. There were 48 litres of water in Tank A and Tank B altogether. Robin poured 5 litres of water from Tank B into Tank A. After that, he poured 7 litres of water from Tank A to Tank B. Both tanks have the same amount of water in the end.

Do not write in this space.

- (a) How many litres of water were there in Tank A at first?
- (b) Tank A was  $\frac{1}{3}$  filled with water at first. What is the capacity of Tank A? Give your answer in litres.

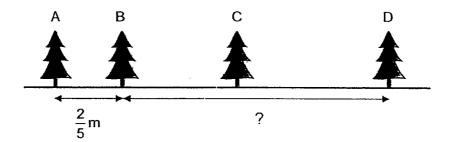
Answer: (a)	[3]
(b)	[1]

43. Farmer Joe plants four trees A, B, C and D along a straight line as shown below.

Do not write in this space.

Trees A and B are  $\frac{2}{5}$ m apart. The distance between Trees B and C is twice the distance between Trees A and B. The distance between Trees C and D is  $\frac{1}{3}$ m more than the distance between Trees B and C.

What is the distance between Trees B and D?



Answer:	_	1	4]
THOWEI.	 •		41

James had \$105 and his brother had \$23 at first.
Mother gave each of them an equal amount of money.
After that, James has 3 times as much money as his brother.
How much did Mother give each of them?

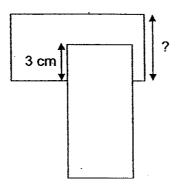
Do not write in this space.

Answer: \_\_\_\_\_ [4

45. Two identical rectangles partially overlapped each other as shown below. The area of each rectangle is 128 cm<sup>2</sup>. Its length is twice its breadth.

Do not write in this space.

- (a) Find the breadth of a rectangle.
- (b) Find the perimeter of the figure below.



Answer:	(a)	[2]

**END OF PAPER** 

• 

## **ANSWER KEY**

YEAR

: 2016

LEVEL

PRIMARY 4

SCHOOL

MARIS STELLA HIGH

SUBJECT

**MATHEMATICS** 

**TERM** 

SA2

### **Booklet A**

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
2	3	2	3	1	4	4	2	4	1
Q11	Q12	Q13	Q14	Q15	Q16	Q17	Q18	Q19	Q20
3	1	1	3	2	3	1	3	2	4

### **Booklet B**

**Q21** 

40 014

**Q22** 

3 and 9

**Q23** 

3389

**Q24** 

12

Q25

 $1\frac{1}{3}$ 

**Q26** 

5.320, 5.203, 5.032

**Q27** 

46.08

**Q28** 

0.018

**Q29** 

∠a and ∠e

Q30

 $6.84 + 5.16 = 12 \text{ kg} \approx 12000 \text{ g}$ 

12000 ÷ 500 ⇒ 24 packets

Q31

 $28 \div 2 = 14$ 

 $14 \times 9 \Rightarrow 126$  cookies

**Q32** 

 $$16.40 + $8.20 \Rightarrow $24.60$ 

Q33

8 kg

•

Q34 
$$12 + 12 = 24$$
  
 $36 + 24 = 60$   
 $60 + 16 \Rightarrow 76$  cm

Q36 Cross (
$$\times$$
) at T

Q37 
$$98 \div 6 = 16^{R2}$$
  
 $90 \div 6 = 15$   
 $16 \times 15 \Rightarrow 240 \text{ pieces}$ 

Q41a 
$$$26.80 + $13.60 \rightarrow $40.40$$
  
 $$40.40 + $26.80 \Rightarrow $67.20$ 

Q41b 
$$$150 - $67.20 \rightarrow $82.80$$
  
 $$82.80 \div 6 \Rightarrow $13.80$ 

Q42a Equal 
$$\rightarrow$$
 48 ÷ 2 = 24  $\ell$   
A  $\rightarrow$  24 + 7 - 5  $\Rightarrow$  26  $\ell$ 

Q42b 
$$\frac{\frac{1}{3}}{\frac{3}{3}} \rightarrow 26 \times 3 \Rightarrow \underline{78 \ell}$$

Q43 
$$1\frac{14}{15}$$

Q44 
$$$105 - $23 = $82$$
  
 $$82 \div 2 = $41$   
 $$41 - $23 \Rightarrow $18$ 

Q45a b x 2b = 128 cm<sup>2</sup>  
2b<sup>2</sup> = 128 cm<sup>2</sup>  
b<sup>2</sup> = 128 ÷ 2 = 64  
b = 
$$\sqrt{64}$$
  $\Rightarrow$  8 cm

Q45b 
$$128 \div 2 = 64 \text{ cm}^2$$
  
8 x 8 = 64 cm<sup>2</sup>  
Perimeter  $\rightarrow$  (6 x 8) + 26  $\Rightarrow$  74 cm

. .