



**MARIS STELLA HIGH SCHOOL (PRIMARY)**

**SEMESTRAL ASSESSMENT 2**

**PRIMARY 4 MATHEMATICS**

**31 OCTOBER 2012**

**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.**

Section A (20 x 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.

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1. The digit 5 in 32.456 stands for 5 \_\_\_\_\_.

- (1) ones
- (2) tenths
- (3) hundredths
- (4) thousandths

2. Write  $2\frac{9}{25}$  as a decimal.

- (1) 2.25
- (2) 2.36
- (3) 2.45
- (4) 2.90

3. Which of the following is a multiple of both 3 and 5?

- (1) 8
- (2) 24
- (3) 30
- (4) 35

4. Which of the following is not an equivalent fraction of  $\frac{1}{5}$ ?

- (1)  $\frac{2}{10}$
- (2)  $\frac{3}{15}$
- (3)  $\frac{5}{25}$
- (4)  $\frac{7}{30}$

Arrange the following fractions from the smallest to the largest.

$$\frac{1}{4}, \frac{7}{12}, \frac{3}{8}$$

(smallest)                      (largest)

(1)  $\frac{1}{4}, \frac{3}{8}, \frac{7}{12}$

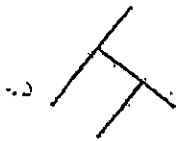
(2)  $\frac{1}{4}, \frac{7}{12}, \frac{3}{8}$

(3)  $\frac{3}{8}, \frac{1}{4}, \frac{7}{12}$

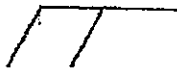
(4)  $\frac{7}{12}, \frac{3}{8}, \frac{1}{4}$

6. Which of the following figures contains both parallel lines and perpendicular lines?

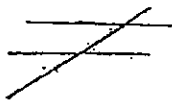
(1)



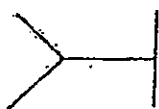
(2)



(3)



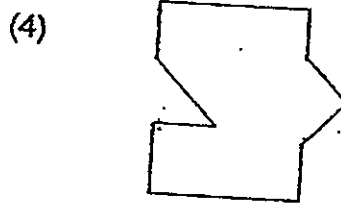
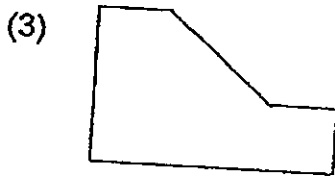
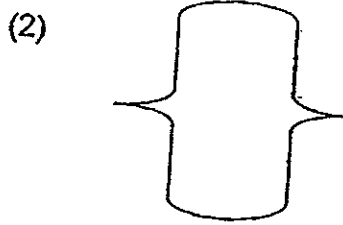
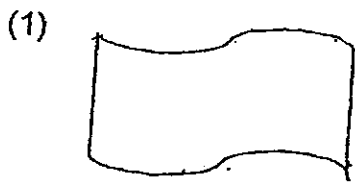
(4)



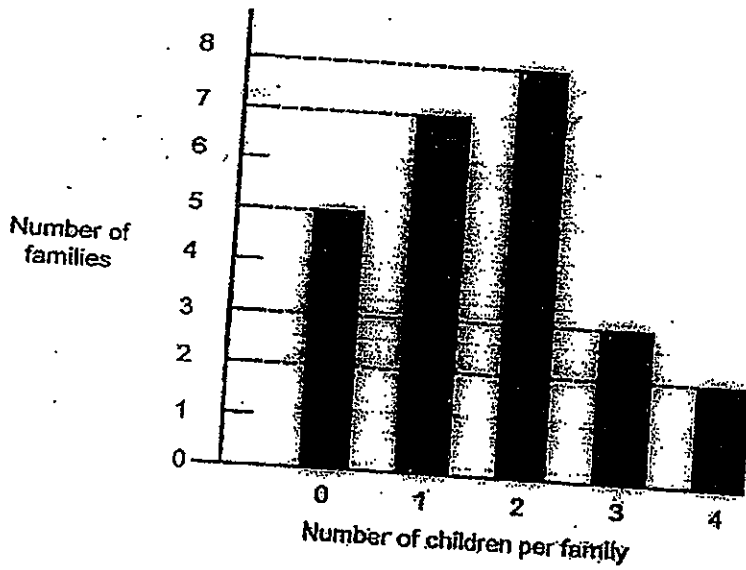
7. The sum of 2 hundreds and 16 tenths is \_\_\_\_\_.

- (1) 216
- (2) 360
- (3) 200.16
- (4) 201.6

8. A group of tourists left Singapore for Kuala Lumpur at 11 45. The tour bus stopped one hour for lunch along the way. It reached Kuala Lumpur at 18 25 on the same day. How long did the bus travel on the road?
- (1) 4 h 40 min
  - (2) 5 h 40 min
  - (3) 6 h 20 min
  - (4) 6 h 40 min
9. A bottle contained 1 l 8 ml of detergent at first. Mrs Lee used 445 ml of the detergent for laundry. How much detergent was left in the bottle?
- (1) 563 ml
  - (2) 635 ml
  - (3) 643 ml
  - (4) 1355 ml
10. When it is 09 20 in Singapore, it is 08 20 in Indonesia. A plane took off for Indonesia at 11 00 Singapore time. The flight was 1 h 25 min long. At what time would the plane arrive in Indonesia in Indonesia time?
- (1) 09 45
  - (2) 10 45
  - (3) 11 25
  - (4) 12 25
11. Samantha had six 20-cent coins and two 50-cent coins. She put \$1.30 into her coin box. How many coins could she have put into the coin box?
- (1) 5
  - (2) 6
  - (3) 3
  - (4) 4



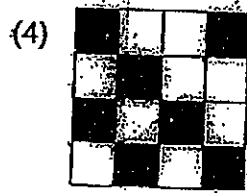
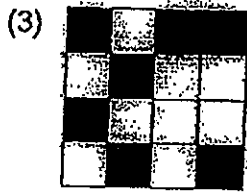
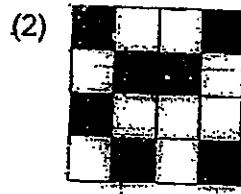
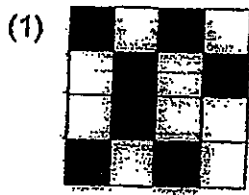
13. The bar-graph below shows the number of children per family in a housing estate.



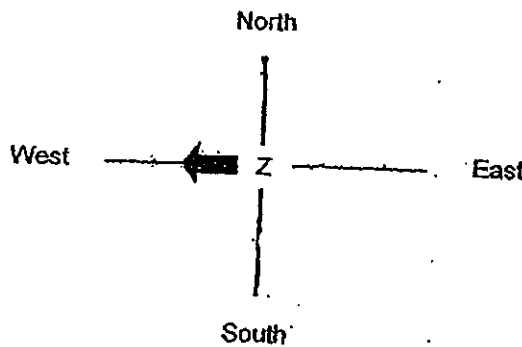
How many families in the estate have at least 2 children?

- (1) 8
- (2) 13
- (3) 15
- (4) 25

14. Which one of the following figures is symmetrical?



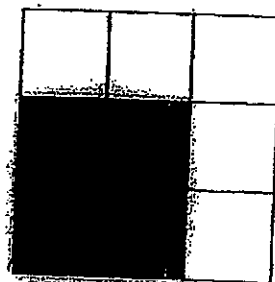
15. Zane is standing at point Z, facing West... He turns through  $270^\circ$  in the clockwise direction, followed by 5 right angles in the anti-clockwise direction. Which direction will Zane be facing in the end?



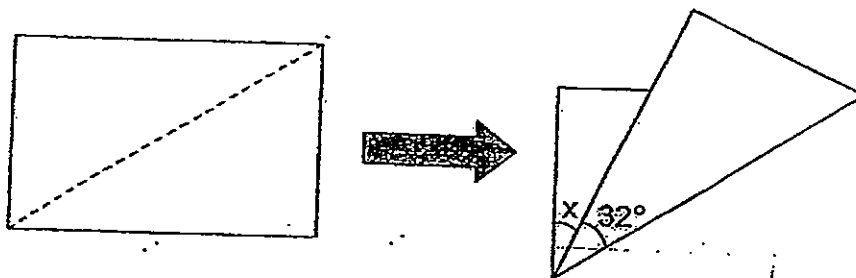
- (1) North
- (2) South
- (3) East
- (4) West

16. The figure is made up of 5 small identical squares and a big shaded square. The area of the big shaded square is  $64 \text{ cm}^2$ . Find the perimeter of the figure.

- (1) 16 cm
- (2) 32 cm
- (3) 48 cm
- (4) 64 cm



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



What is the size of  $\angle x$  ?

- (1)  $13^\circ$
- (2)  $26^\circ$
- (3)  $32^\circ$
- (4)  $58^\circ$

18. The table below shows 100 medals won by four Primary 4 classes on a Sports Day.

	Gold	Silver	Bronze
4A	7	6	14
4B	7	?	5
4C	8	15	6
4D	4	5	12

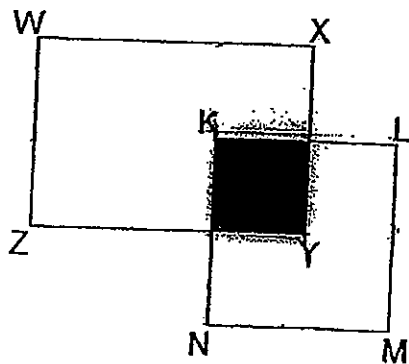
Which class won the least number of medals?

- (1) 4A
- (2) 4B
- (3) 4C
- (4) 4D

19. A robot was standing 1 metre away from a tree when it started to take some steps in a straight line. Each step was  $\frac{1}{5}$  metre apart. How many steps would the robot have taken when it was found 11 metres away from the tree?

- (1) 55
- (2) 50
- (3) 11
- (4) 10

20. The shaded area shown below is  $\frac{1}{6}$  of Rectangle WXYZ. It is also  $\frac{1}{4}$  of Square KLMN.



The area of Square KLMN is  $48 \text{ cm}^2$ . Find the area of Rectangle WXYZ.

- (1)  $72 \text{ cm}^2$
- (2)  $60 \text{ cm}^2$
- (3)  $32 \text{ cm}^2$
- (4)  $12 \text{ cm}^2$

End of Booklet A  
Go on to Booklet B





**MARIS STELLA HIGH SCHOOL (PRIMARY)**

**SEMESTRAL ASSESSMENT 2**

**PRIMARY 4 MATHEMATICS**

**31 OCTOBER 2012**

**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 TO DO SO.**

**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.

Do not write in this space.

21. What is the value of the digit 4 in 341 689?

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

22.  $8016 \div 8 =$  \_\_\_\_\_

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

23. Express 0.04 as a fraction. Give your answer in its simplest form.

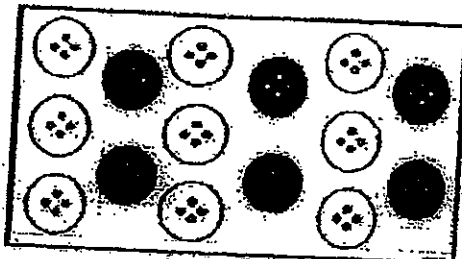
Answer: \_\_\_\_\_

24. Fill in the blank with the correct number in the number pattern below.

650, 575, 500, \_\_\_\_\_, 350

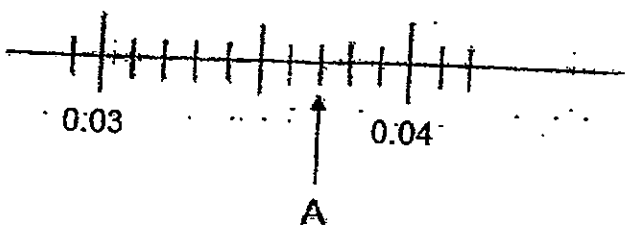
Answer: \_\_\_\_\_

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

26. Write the decimal represented by A.



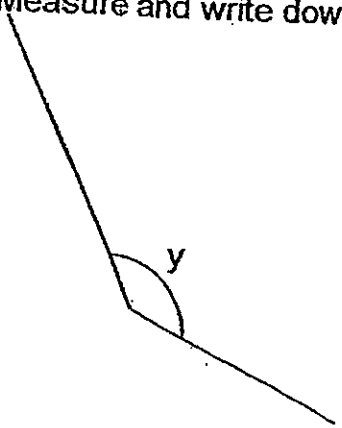
Answer: \_\_\_\_\_

27. Which two of the fractions below are equivalent to  $\frac{8}{12}$ ?

- $\frac{10}{15}$  ,  $\frac{6}{8}$  ,  $\frac{3}{4}$  ,  $\frac{2}{3}$

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

28. Measure and write down the size of  $\angle y$ .



Answer: \_\_\_\_\_ °

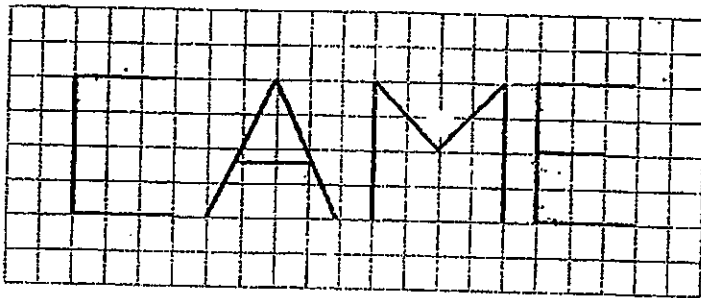
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29. Find the value of  $1 - \frac{2}{9} - \frac{1}{3}$ .

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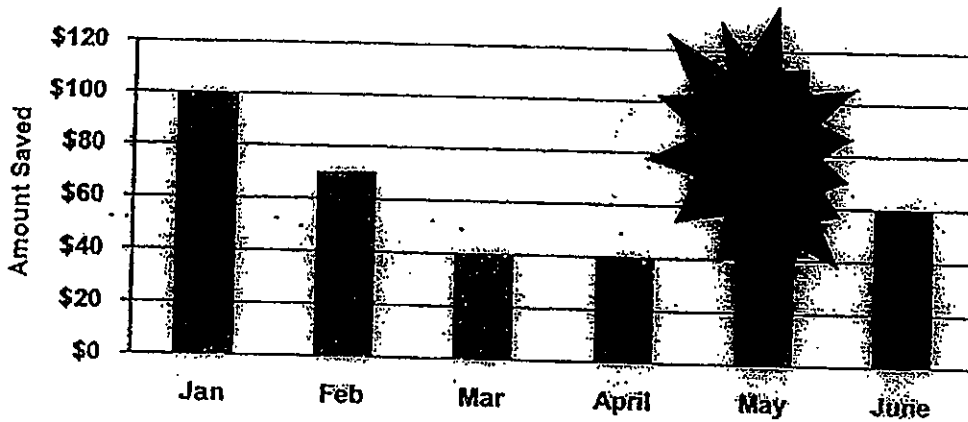
Answer: \_\_\_\_\_

30. In the diagram below, the letters C, A, M and E are drawn on a square grid. List all the letters which have perpendicular lines.



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

31. The bar graph below shows Sharon's savings over six months. A drop of ink had accidentally covered part of the graph.

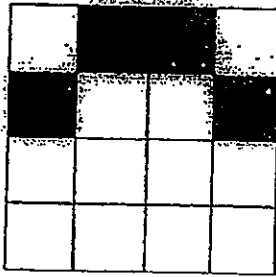


What is Sharon's savings for the month of May if the amount was half of the total amount she saved in January and February?

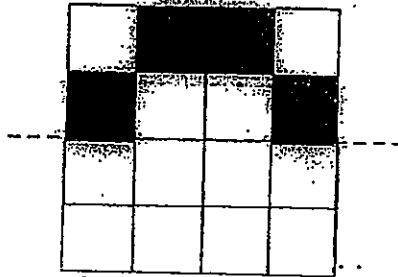
Answer: \$ \_\_\_\_\_

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

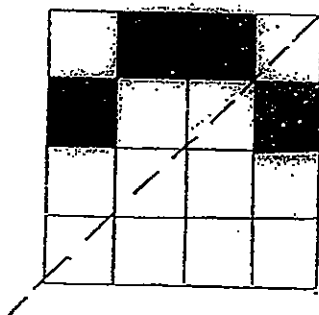
33. Part of a symmetric figure is shown below.



(a) If the dotted line is the line of symmetry, complete the other half of the figure by shading the correct square(s) below. [1]



(b) Peter thinks of a different line of symmetry that requires him to shade only two squares. Shade the two squares for Peter below. [1]

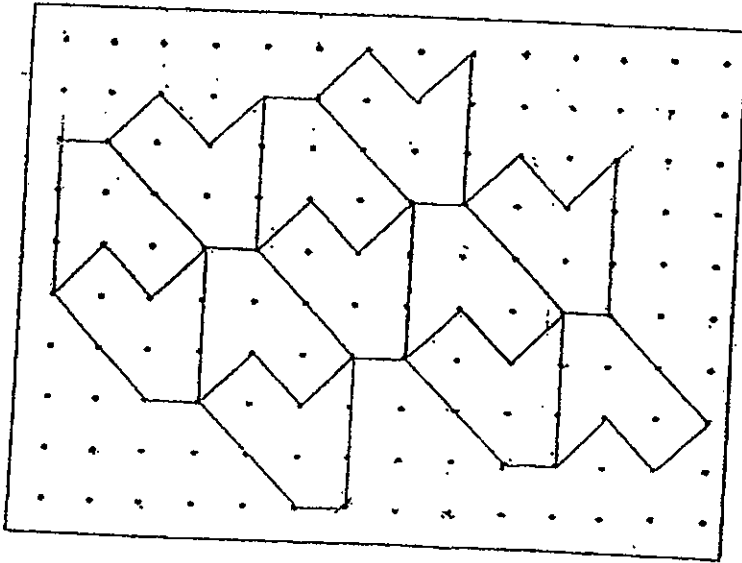


34. Farmer John wants to build a fence around his farm to contain his sheep. The shape of the farm is a square with an area of  $36 \text{ m}^2$ . How much does he have to pay if it costs \$20 per metre to fence the farm?

Do not write in this space.

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

35. The pattern in the box shows part of a tessellation.



- (a) Extend the tessellation by drawing two more unit shapes in the space provided in the box above. You are to keep to the pattern used in the tessellation.

[1]

- (b) Is the unit shape used in the tessellation a symmetric figure?

Answer: \_\_\_\_\_ [1]

8 apples and 4 oranges cost \$3.20 altogether.  
8 apples and 4 oranges cost \$7.60 altogether.  
How much does an apple cost?

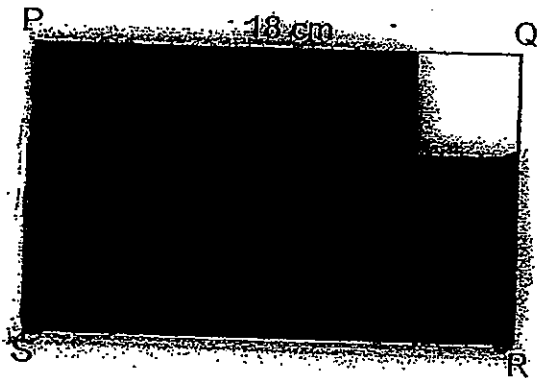
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write in  
this  
space.

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

37. A bus arrives at a bus stop every 15 minutes. If the first bus arrives at 6:35 a.m., at what time will the 7<sup>th</sup> bus arrive? Express your answer in the 24-hour clock.

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

38. The figure below is made up of Rectangle PQRS and a square. PQ is 18 cm, the side of the square is 4 cm and QR is 3 times the side of the square. Find the perimeter of the shaded portion.



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

39. Lihua has some 5-cent, 10-cent, 20-cent and 50-cent coins in her pouch. She used five coins to pay for a pen. What is the **lowest possible cost** of the pen if she used at least one of each type of coins?

Do not write in this space.

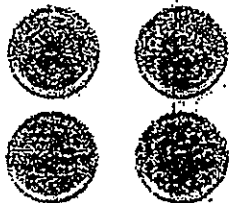
Answer: \$ \_\_\_\_\_

40. Good Deals Shop sells plates as shown in the poster below.

**LOVELY PLATES**

**\$3** per plate.

**BUY 4** plates  
get  
**1 FREE!**



Mrs Seig needs 20 plates for a dinner party. How much does she have to pay if she gets them from Good Deals Shop?

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



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

41. Sulin bought two fish with a mass of 2.06 kg and 0.19 kg respectively. The fish were sold at \$8 per kg. How much change did she receive if she paid the cashier \$20?

Do not write in this space.

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

42. Mary has twice as many stamps as Raju. If Mary gives Raju 72 stamps, she will have the same number of stamps as Raju. How many stamps do they have altogether?

Do not  
write in  
this  
space.

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

43.  $\frac{1}{4}$  of Siti's money is as much as  $\frac{2}{3}$  of Celine's money. If Siti has \$155 more than Celine, how much money do they have altogether?

DO NOT  
write in  
this  
space.

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

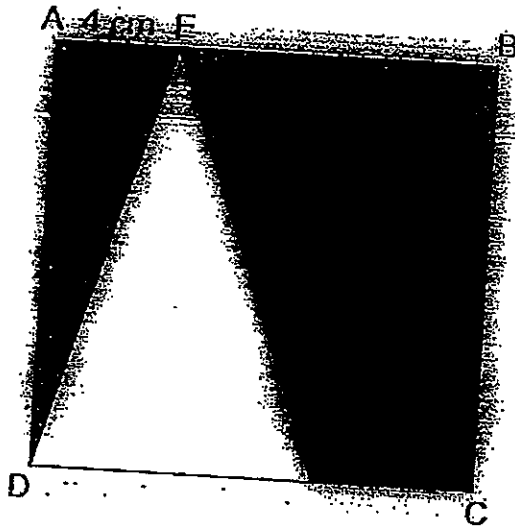
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44. Sandy is now 15 years old. 3 years ago, her mother was thrice her age. Find their total age now.

Do not write in this space.

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

In the figure below, ABCD is a square not drawn to scale. AE is 4 cm long and it is  $\frac{1}{4}$  the length of AB.



Do not  
write in  
this  
space.

The area of the unshaded portion is  $\frac{3}{8}$  the total area of the square.  
What is the area of the shaded portion?

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

End of Paper

19

SCORE  
(Go on to the next page)

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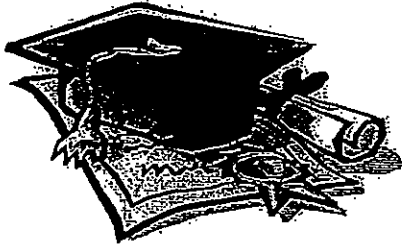
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# ANSWER SHEET

**EXAM PAPER 2012**

**SCHOOL : MARIS STELLA**  
**SUBJECT : PRIMARY 4 MATHEMATICS**

**TERM : SA2**

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

21) 40000

22) 1002

23)  $1/25$

24) 425

25)  $3/5$

26) 0.037

27)  $2/3$  and  $10/15$

28)  $141^\circ$

29)  $4/9$

30) C, E, M

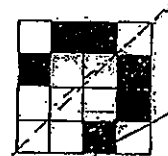
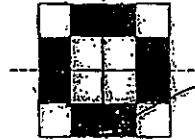
31) \$85

32)  $135^\circ$

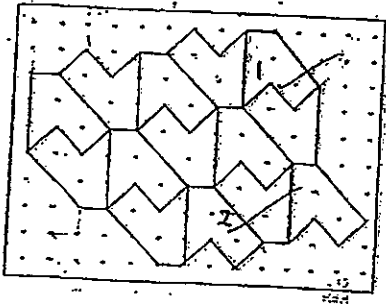
33) a)

b)

34) \$480



35) a)



35) b) No

36)  $\$.20 \times 2 = \$6.40$  (6a + 4o)  
 $\$7.60 - \$6.40 = \$1.20$  (2a)  
 $\$1.20 \div 2 = \$0.60$  (1a)

37) 08 05

38)  $4 \times 3 = 12$   
 $12 \times 2 = 24$   
 $18 \times 2 = 36$   
 $24 + 36 = 60\text{cm}$

39)  $50c + 20c + 10c + 5c = 85c$   
 $85c + 5c = 90c = \$0.90$

40)  $\$3 \times \$4 = \$12$   
 $20 \div 5 = 4$   
 $\$12 \times 4 = \$48$

41) Total mass  $\rightarrow 2.06 + 0.19 = 2.25\text{kg}$   
 $1\text{kg} \rightarrow \$8$   
 $2.25\text{kg} \rightarrow 8 \times 2.25 = 18.00$   
Change  $\rightarrow 20 - 18 = \$2$   
She will received \$2 as change

42)  $72 \times 2 = 144$  (1u)  
 $144 \times 3 = 432$  (3u)  
They will have 432 stamps altogether

43)  $5u \rightarrow 155$   
 $1u \rightarrow 155 \div 5 = 31$   
 $11u \rightarrow 31 \times 11 = 341$   
They have \$341 altogether

44)  $15 - 3 = 12$   
 $12 \times 3 = 36$   
 $36 + 3 = 39$   
 $39 + 15 = 54$   
Their total age now is 54 years old

45)  $4 \times 4 = 16$   
 $16 \times 16 = 256$   
 $256 \div 8 = 32$   
 $32 \times 5 = 160$   
The area of the shaded portion is 160cm<sup>2</sup>