MARIS STELLA HIGH SCHOOL (PRIMARY)

SEMESTRAL ASSESSMENT 2

PRIMARY 4 MATHEMATICS

31 OCTOBER 2011

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.

---

1. The value of the digit 5 in 65 783 is _____.

   (1) 50

   (2) 500

   (3) 5 000

   (4) 50 000

2. Which number below is 10 more than 4576?

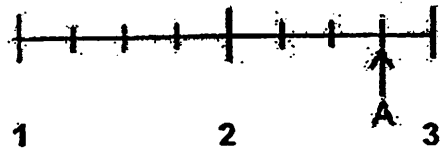
   (1) 4566

   (2) 4577

   (3) 4586

   (4) 4676

3. Which of the following mixed numbers is represented by the letter A in the number line shown?



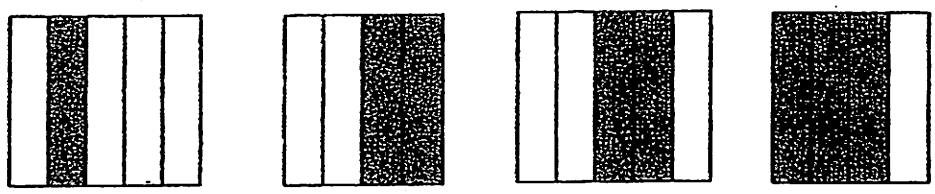
   (1) $2\frac{1}{4}$

   (2) $2\frac{3}{4}$

   (3) $3\frac{1}{4}$

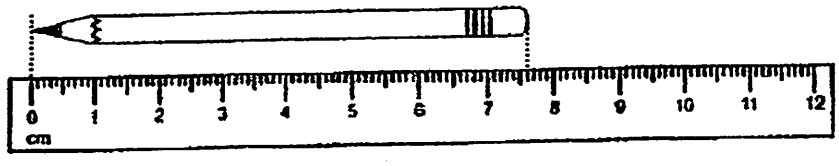
   (4) $3\frac{3}{4}$

4. Which one of the following has $\frac{2}{5}$ of the figure shaded?



(1) (2) (3) (4)

5. In the figure below, what is the length of the pencil in cm? Give your answer as a decimal.



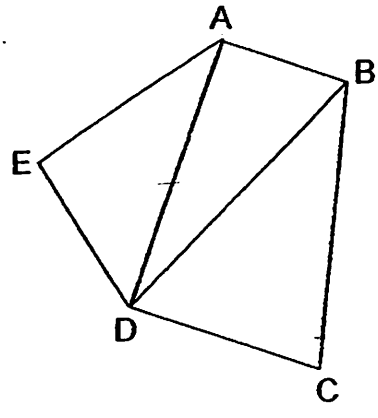
(1) 8.6 cm

(2) 8.4 cm

(3) 7.8 cm

(4) 7.6 cm

6. In the figure below, which two lines are perpendicular?



(1) AE and ED

(2) AB and DC

(3) BC and AD

(4) ED and DB

7. A paint company bought 1794 tins of paint. Each tin contained 16 ℓ of paint. It used 809 tins to paint a building. How many litres of paint had the company left?

(1) 985 ℓ

(2) 11 150 ℓ

(3) 15 760 ℓ

(4) 27 895 ℓ

8. What is the greatest common factor of 27 and 54?

(1) 54

(2) 27

(3) 3

(4) 9

9. At a dinner, 6 pizzas were shared equally among 8 adults. How many pizzas did 5 adults receive?

(1) $\frac{1}{8}$

(2) $\frac{3}{4}$

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

(4) $3\frac{3}{4}$

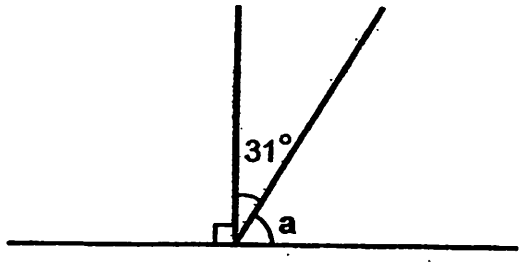
10. The figure below is not drawn to scale. Find $\angle$ a.

(1) 14°

(2) 59°

(3) 121°

(4) 149°



11. Sue ended her ballet lesson at 2.45 p.m. Her ballet lesson lasted 108 min. At what time did she start her ballet lesson? Give your answer in the 24-hour clock.

(1) 12 57

(2) 13 37

(3) 15 53

(4) 16 33

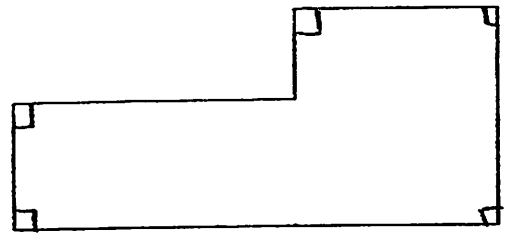
12. The figure below is made up of a square and a rectangle. How many right angles are there inside this figure?

(1) 7

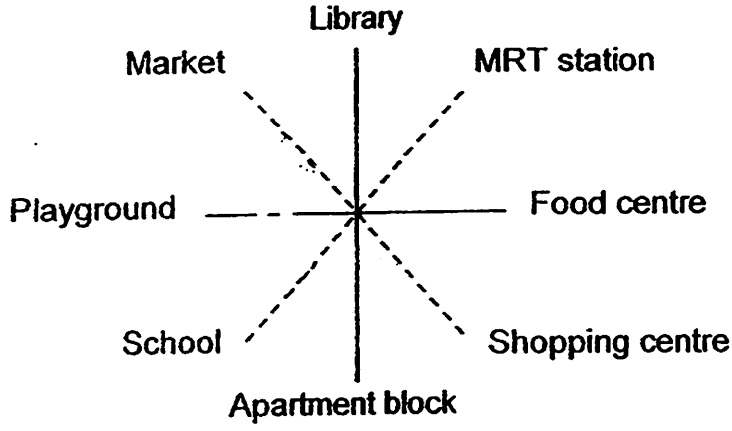
(2) 6

(3) 5

(4) 4



13. Doris turned through 135° in a clockwise direction. Then she turned through 90° in an anticlockwise direction. She faces the school now. Where was she facing at first?



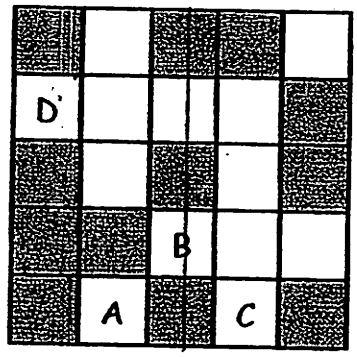
(1) Market

(2) Food centre

(3) Playground

(4) Apartment block

14. Which square (A, B, C or D) must be shaded so that the figure has a line of symmetry?



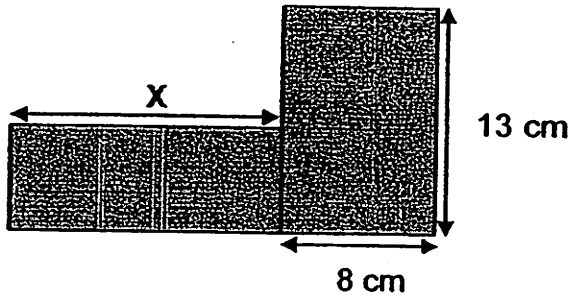
(1) A

(2) B

(3) C

(4) D

15. The figure below, not drawn to scale, is made up of two rectangles. It has a perimeter of 72 cm. What is the value of X?



(1) 11 cm

(2) 15 cm

(3) 30 cm

(4) 42 cm

16. If Jolene losses 1.9 kg, Emily will be half her mass. If Emily weighs 34.6 kg, find the mass of Jolene.

(1) 36.5 kg

(2) 65.4 kg

(3) 69.2 kg

(4) 71.1 kg

17. An ice-cream man sells two types of ice-cream shown below.

$1.20 each

$0.75 each

Mohan bought an equal number of each type of ice-cream from the ice-cream man and paid with a $10 note. At most, how many ice-cream did Mohan buy?

(1) 5

(2) 6

(3) 10

(4) 12

18. Mr Choy paid $225 for 2 watches and 3 shirts. Each watch cost 3 times as much as a shirt. How much did he pay for each watch?

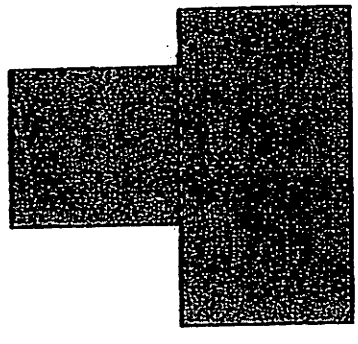
(1) $25

(2) $45

(3) $75

(4) $135

19. The figure below is made up of 3 identical squares, each of side 4 cm. Find the perimeter of the figure.



(1) 28 cm

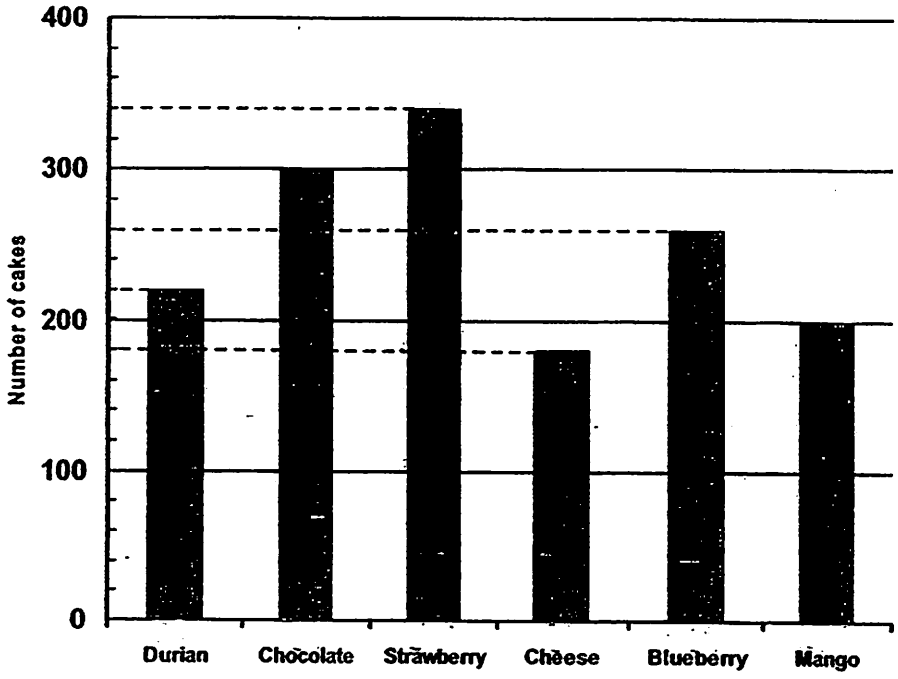
(2) 32 cm

(3) 40 cm

(4) 48 cm

73

20. The table below shows the different types of cakes that were sold by a bakery during a sale.



All the cakes were sold at $8 each. What is the difference in sales between the most popular and the least popular type of cakes?

(1) $1280

(2) $1440

(3) $1500

(4) $2720

End of Booklet A

Go on to Booklet B

MARIS STELLA HIGH SCHOOL (PRIMARY)

SEMESTRAL ASSESSMENT 2

PRIMARY 4 MATHEMATICS

31 OCTOBER 2011

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.

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 15 thousandths in figures.

Answer: _____

Do not write in this space.

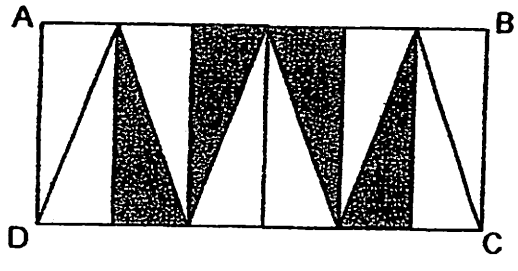
22. What is the remainder when 1018 is divided by 7?

Answer: _____

23. Round off 536.54 to the nearest whole number.

Answer: _____

24. In the figure below, rectangle ABCD is made up of 6 identical smaller rectangles. What fraction of rectangle ABCD is shaded?



Answer: _____

SCORE

(Go on to the next page)

25. Two of the factors of 15 are 1 and 15. What are the other two factors of 15?

Do not write in this space.

Answer: _____ and _____

26. What is the value of $\frac{11}{12} + \frac{3}{4}$?

Express your answer as a mixed number.

Answer: _____

27. Which two of the fractions below are smaller than $\frac{1}{2}$?

$$\frac{6}{11}, \frac{2}{5}, \frac{3}{6}, \frac{3}{7}$$

Answer: _____ and _____

28. Arrange these numbers from the smallest to the greatest.

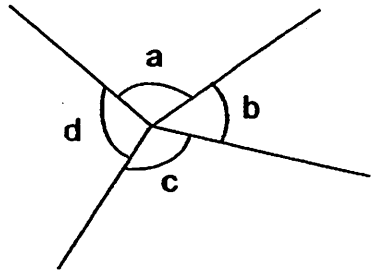
0.830, 7.500, 0.705, 1.083

Answer: _____, _____, _____, _____
(smallest) (greatest)

SCORE

(Go on to the next page)

29. In the figure, name the angle that is smaller than 90°.



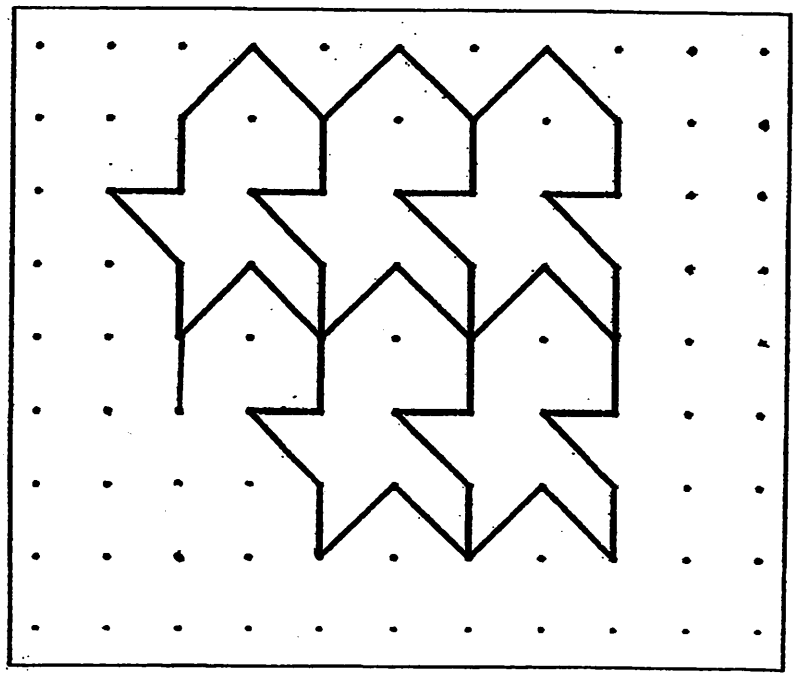
Answer: ∠_____

Do not write in this space.

30. Find the sum of the eighth multiple of 7 and the ninth multiple of 6.

Answer: _____

31. Part of a tessellation is shown below. Keeping to the pattern, complete the tessellation in the space provided below by adding **two more** unit shapes. Shade them.



SCORE

(Go on to the next page)

32. (a) Which one of the following figures is symmetrical?

Do not write in this space.

Figure A

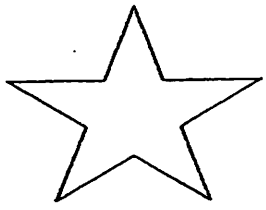
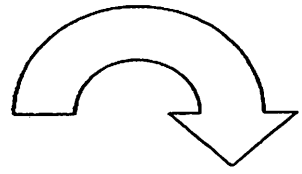


Figure B



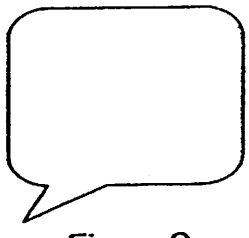


Figure C

Figure D

Answer: (a) Figure _____ (1)

(b) Which one of the following shapes **cannot** tessellate?

Figure P

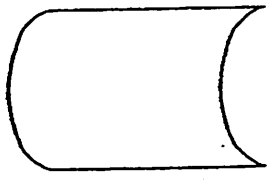
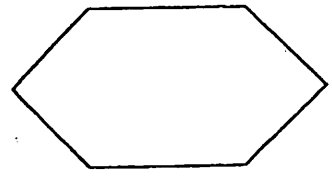


Figure Q



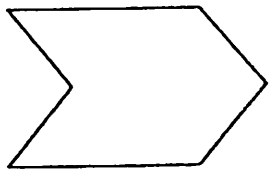


Figure R

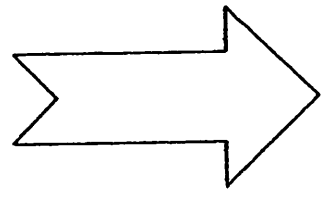


Figure S

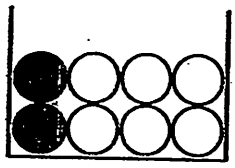
Answer: (b) Figure _____ (1)

SCORE ٦٩

(Go on to the next page)

33. $\frac{1}{4}$ of the marbles in the container below are grey and the rest are white.

Do not write in this space.

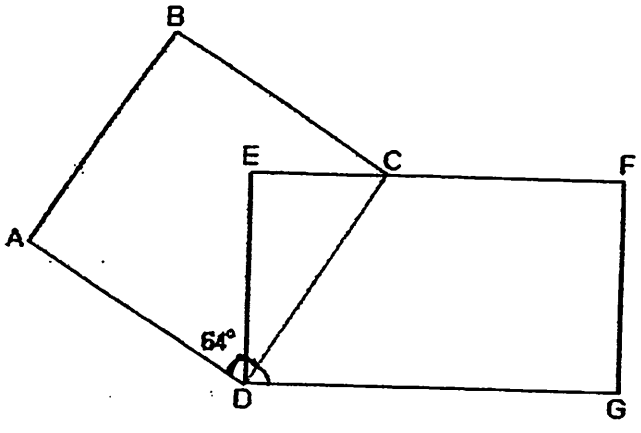


Paul adds in more grey marbles. Now, $\frac{1}{4}$ of the marbles are white.

How many grey marbles are added?

Answer: _____

34. In the figure not drawn to scale, ABCD is a square and DEFG is a rectangle. Find $\angle$ CDG.



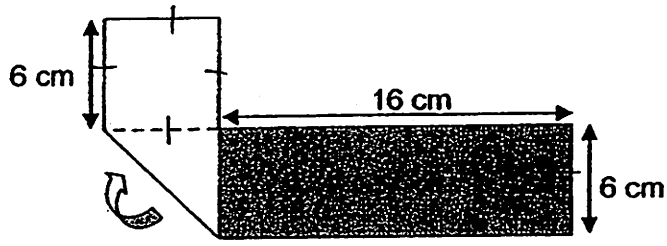
Answer: _____ °

SCORE

(Go on to the next page)

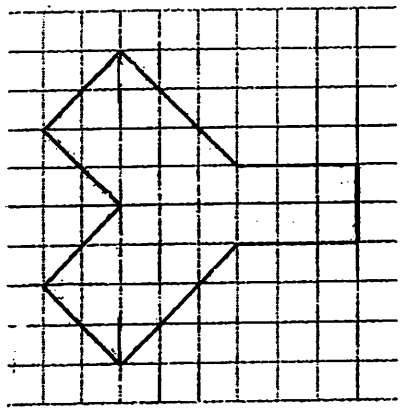
35. A rectangular piece of paper, not drawn to scale, is folded to form the shape below. Find the perimeter of the paper before it was folded.

Do not write in this space.



Answer: _____ cm

36. Study the figure below carefully. How many pairs of perpendicular lines are there?

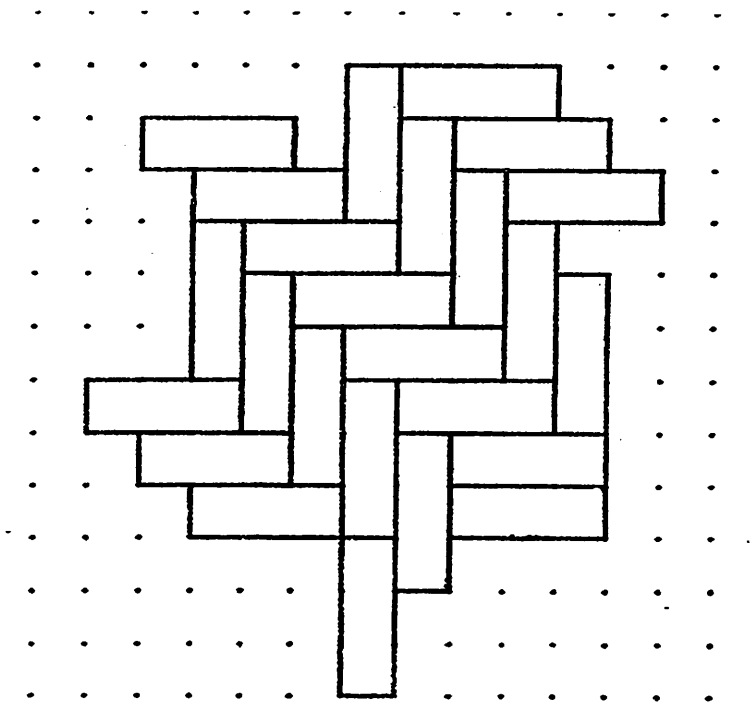


Answer: _____ pairs

37. The perimeter of a rectangle is 56 cm. If the length of the rectangle is 3 times its breadth, what is the area of the rectangle?

Answer: _____ cm^2

38. Cross out (X) the <u>two</u> unit shapes that are tessellated wrongly.



Do not write in this space.

39. The table below shows the rates for a tour to Phuket.

Type of room	Adult (Price per person)	Child under 12 years old (Price per person)
Standard	$ 450	$ 280
Superior	$ 560	$ 360
Deluxe	$ 660	$ 500

Mr Lim plans to take his wife, father and three children; aged seven, eleven and fifteen on this tour. How much will he have to pay in total if all of them stay in superior rooms?

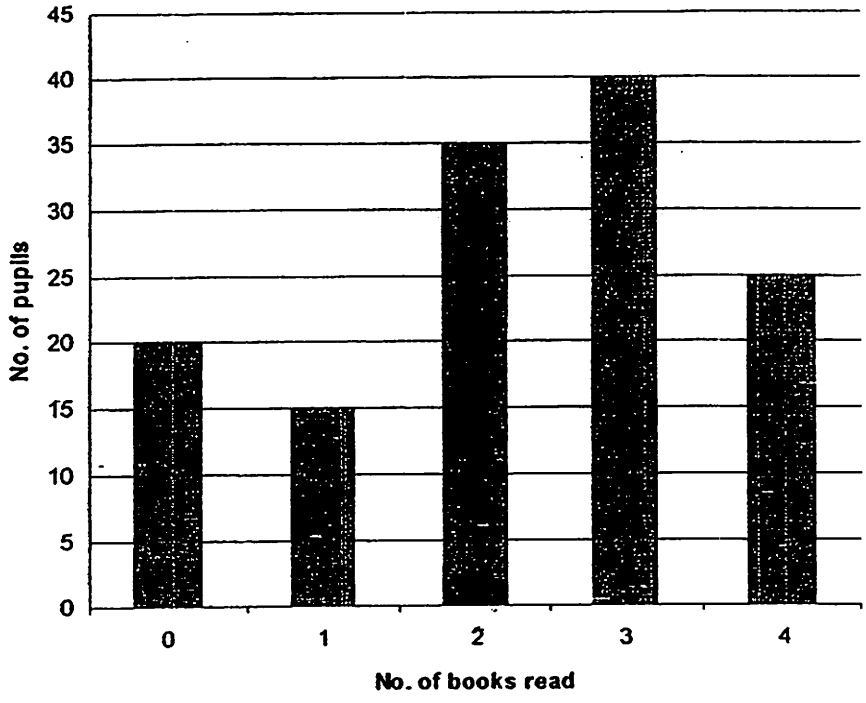
Answer: $ _____

SCORE

(Go on to the next page)

40. The bar graph below shows the number of books that pupils from Sunshine Kindergarten read last month. How many books did they read in all?

Do not write in this space.



Answer: _____

SCORE

(Go on to the next page)

Section C (5 x 4 = 20 marks)

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

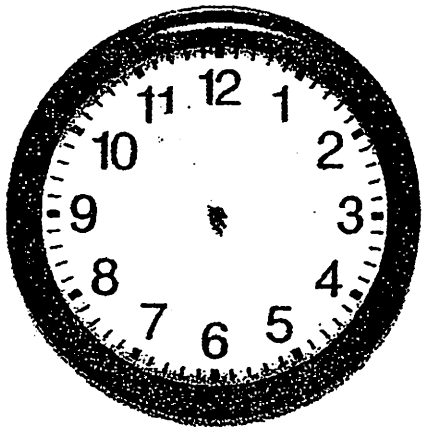
41. Sally arrived at the library at 11.50 a.m. one morning and stayed there for 1 hour 45 minutes. She then spent the next 45 minutes on her lunch. Finally, she took another 35 minutes to travel home.

Do not write in this space.

(a) At what time did Sally reach home?

Answer: (a) _____ [3]

(b) Draw in the missing hour hand and minute hand to show the time on Sally's watch when she reached home. The second hand is drawn in for you. [1]

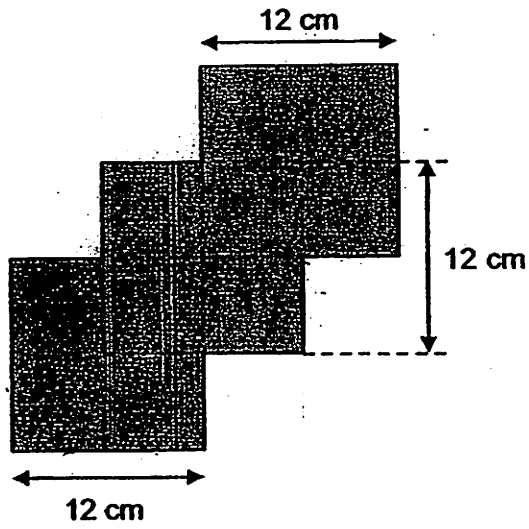


SCORE

(Go on to the next page)

42. The figure below is formed by overlapping 3 identical squares. The side of each square is 12 cm. Find the area of the figure.

Do not write in this space.



Answer:_____[4]

SCORE
(Go on to the next page)

43. The poster below shows rice on sale in Thrifty Supermart.

Do not write in this space.

Mrs Sim needs 10 bags of such rice. What is the **least** amount she has to pay if she buys them from Thrifty Supermart during the sale?

Answer: _____ [4]

SCORE

(Go on to the next page)

44. When $\frac{3}{8}$ of a container was filled with sugar, it weighed 20 kg. Mrs Tan poured another 6 kg of sugar into the container and it became half full.

Find the mass of the container when it was empty.

Do not write in this space.

Answer: _____ [4]

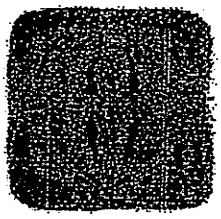
SCORE

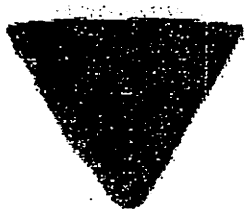
(Go on to the next page)

87

45. Xiao Hong baked a total of 25 square and triangular cookies. The cookies had 84 sides altogether. How many square cookies did Xiao Hong bake?

Do not write in this space.





Answer: _____ [4]

END OF PAPER

SCORE

ANSWER SHEET

EXAM PAPER 2011

SCHOOL : MARIS STELLA
SUBJECT : PRIMARY 4 MATHEMATICS

TERM : SA2

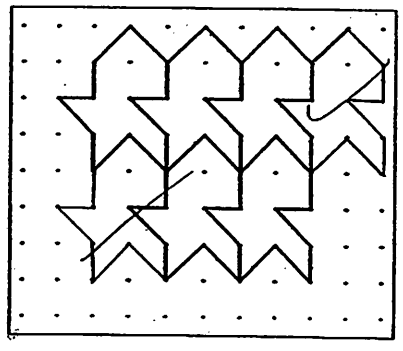
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16	Q17
3	3	2	3	4	1	3	2	4	2	1	3	4	1	2	4	3

Q18	Q19	Q20
3	2	1

21)0.015 **22)3** **23)537** **24)4/12** **25)3 and 5**

26)$1\frac{8}{12}$ **27)2/5 and 3/7** **28)0.705, 0.83, 1.083, 7.5** **29)b**

30)110 **31)**



32)a)A **b)S**

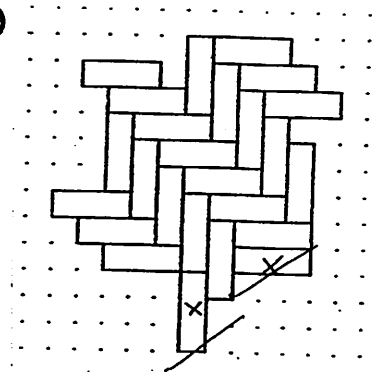
33)16

34)64°

35)68cm

36)7 pairs

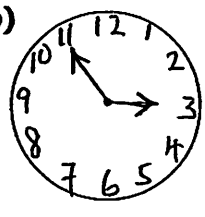
37)147cm2 **38)**



39)$2960 **40)305**

41)a)2.55p.m.

b)



42)12÷2 = 6
6 x 6 = 36
36 x 10 = 360cm2

43)Two bags→$9.35 x 2 = $18.70
Six bags→$18.70 x 3 = $56.10
Ten bags→$56.10 + $9.35 = $65.45

44)1u→6kg
4u→6 x 4 = 24kg
Empty container→26kg – 24kg = 2kg

45)

Square	triangular	statment (84)	√ /x
8 (32)	17 (51)	51+32 = 83	X
9 (36)	16 (48)	48+36 = 84	√

Xiao Hong baked 9 square cookies.