NAN HUA PRIMARY SCHOOL

PRIMARY FOUR SEMESTRAL ASSESSMENT 2 - 2011

MATHEMATICS

Duration : 1 h 45 min

INSTRUCTIONS TO CANDIDATES

1. Write your name, register number and class in the blanks provided.
2. Do not turn over this page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Write your answers in this booklet.

Marks Obtained

Section A & B		/ 80
Section C		/ 20
Total		/ 100

Name : _____ ( )

Class : P 4 ____

Date : 21 Oct 2011 Parent's Signature : _____

Section A: Multiple Choice Questions (20 × 2 marks)

Questions 1 to 20 carry 2 marks each.

Of the 4 options given, only one is correct. Choose the correct answer (1, 2, 3 or 4) and shade the correct oval on the Optical Answer Sheet (OAS).

1. $9 \times 10\,000 + 8 \times 1\,000 + 3 \times 100 + 2 \times 1 =$ _____

   (1) 98 321
   (2) 98 302
   (3) 98 301
   (4) 98 031

2. Which of the following is a factor of **both** 12 and 32?

   (1) 9
   (2) 8
   (3) 6
   (4) 4

3. In which of the following numbers does the digit '4' stand for 4 tenths?

   (1) 14.38
   (2) 25.46
   (3) 49.72
   (4) 51.84 ( )

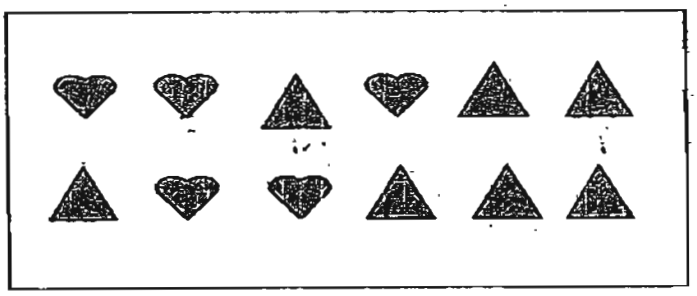
4. What fraction of the shapes in the box are ♥ ?

   (1) $\frac{5}{12}$

   (2) $\frac{5}{7}$

   (3) $\frac{7}{12}$

   (4) $\frac{7}{5}$



( )

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

(1) $\frac{2}{8}$

(2) $\frac{3}{12}$

(3) $\frac{5}{24}$

(4) $\frac{7}{28}$ ( )

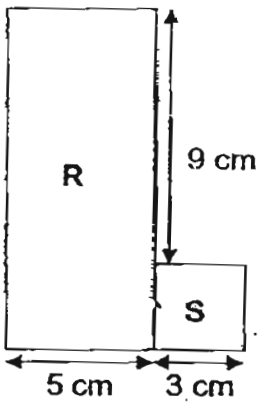
6. The figure shown is not drawn to scale. It is made up of a square S of side 3 cm and a rectangle R with breadth 5 cm. What is the length of rectangle R?

(1) 8 cm

(2) 9 cm

(3) 12 cm

(4) 14 cm ( )



7. Which of the following fractions is the **greatest**?

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

(2) $\frac{3}{8}$

(3) $\frac{5}{7}$

(4) $\frac{5}{9}$)

8. Mother cut a cake into 20 pieces. She kept $\frac{3}{5}$ of it and gave the rest to her neighbour. How many pieces of cake did she give to her neighbour?

(1) 12
(2) 8
(3) 3
(4) 4 ( )

9. Alan left his house at 11.40 p.m. and took 40 minutes to travel to the cinema. He was 10 minutes late for the movie. What time did the movie begin?

(1) 00 10
(2) 00 30
(3) 12 10
(4) 12 30 ( )

10. Which one of the following letters has only one line of symmetry?

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

11. Janice has 7 coins in her purse. All of them are either twenty-cent or five-cent coins. Which of the following **cannot** be the amount of money in her purse?

(1) $0.65
(2) $0.90
(3) $1.10
(4) $1.25

12. The total mass of a pear and a durian is 1 kg. The durian is 350 g heavier than the pear. What is the mass of the durian?

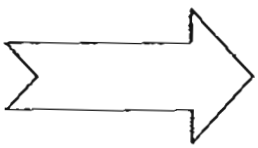
(1) 150 g
(2) 325 g
(3) 675 g
(4) 850 g ( )

13. Which of the following unit shapes <u>can</u> be tessellated?

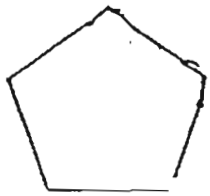
(1)

(2)

(3)

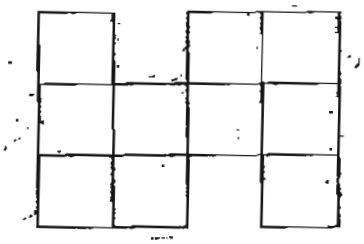


(4)



)

14. The figure below is made up of 3-cm squares. Find its perimeter.

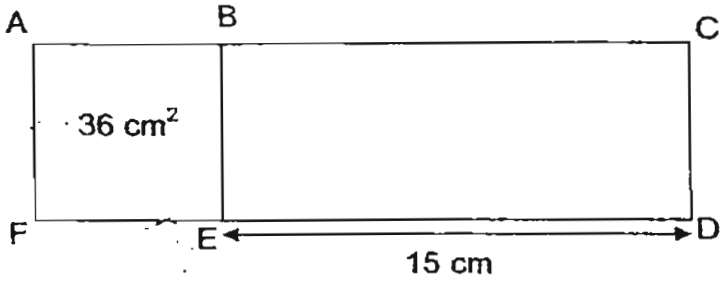


(1) 18 cm
(2) 30 cm
(3) 54 cm
(4) 90 cm

15. A rectangle with a length of 8 cm has an area of 48 cm^2. What is its perimeter?

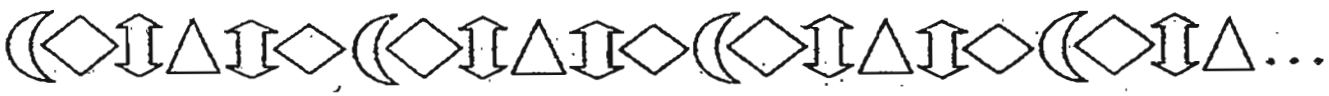
(1) 14 cm
(2) 28 cm
(3) 32 cm
(4) 64 cm ( )

16. The figure below is made up of a square and rectangle. The area of the square ABEF is 36 cm^2. The length of DE is 15 cm. What is the area of rectangle ACDF?



(1) 54 cm^2
(2) 90 cm^2
(3) 126 cm^2
(4) 135 cm^2 ( )

17. Serene made a pattern using some shapes. The pattern is shown below. Which of the following is the 58th shape of the pattern?



(1) 

(2) 

(3) 

(4)  ( )

18. A box contains some white and blue balls. $\frac{2}{7}$ of the balls are white. There are 15 more blue balls than white balls. How many balls are there in the box?

(1) 10
(2) 21
(3) 35
(4) 75 ( )

19. Kate bought a blouse and 2 skirts. She gave the cashier $100 and got back $39.25 as change. A skirt cost twice as much as a blouse. How much did a skirt cost?

(1) $12.15
(2) $20.25
(3) $24.30
(4) $40.50 ( )

20. 6 scouts were supposed to be given an equal number of tickets to sell at a charity event. One of them was absent and his tickets were given to the remaining scouts. As a result, each of the remaining scouts received 5 more tickets. What was the total number of tickets that were given to the scouts?

(1) 25
(2) 30
(3) 125
(4) 150 ( )

Section B: Open-ended Questions (20 × 2 marks)
Questions 21 to 40 carry 2 marks each.
Write out the correct answers for the following questions in the boxes provided.
Show your workings clearly and give your answers in the units provided.

21. What number is 10 more than 8 894?

22. Arrange the following numbers from the **smallest** to the **greatest**.

317 , 731 , 713 , 371

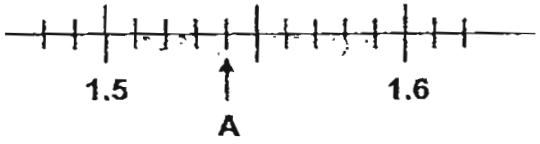
_____ , _____ , _____ , _____
smallest **greatest**

23. What is the remainder when 3 004 is divided by 7?

24. Write $\frac{17}{4}$ as a mixed number in its simplest form.

25. Find the value of $1 - \frac{1}{8} - \frac{1}{2}$.

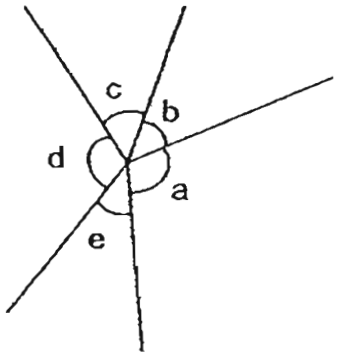
26. Write the decimal represented by A.



27. Round off 17.55 to the nearest whole number.

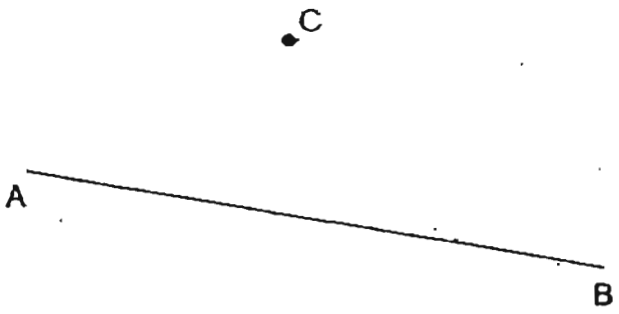
28. Find the value of 5.35 × 7.

29. In the figure, name the two angles that are **greater than 90°**.



∠___ and ∠___

30. Use a set-square and a ruler to draw a line parallel to the line AB passing through point C.



31. Mrs Rajoo has 2 litres of orange juice. She pours out 3 glasses of 350 mℓ for her children. How much orange juice has she left?

[ ] mℓ

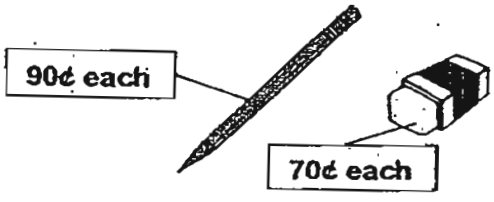
32. The Tan family set off for the zoo at 08 00. They drove for 45 minutes and stopped for breakfast at a coffee shop. They ate for 1 h and it took them another 45 minutes to reach the zoo. They left the zoo at 17 00. How long did they stay at the zoo? Give your answers in hours and minutes.

[ ] h [ ] min

33. Suzy is 7 years old. 2 years ago, her mother was 6 times her age. How old would her mother be in 4 years' time?

[ ] years old

34. Pencils were sold at $0.90 each and erasers were sold at $0.70 each in a shop. Mrs Lim bought a mix of these 2 types of stationery for her 10 children. Each of them received only one piece of the stationery bought. She paid $7.60 for them. How many erasers did she buy?



[ ] erasers

The table below shows the types of stamps collected by 4 children.
Study the table below carefully and use it to answer questions 35 and 36.

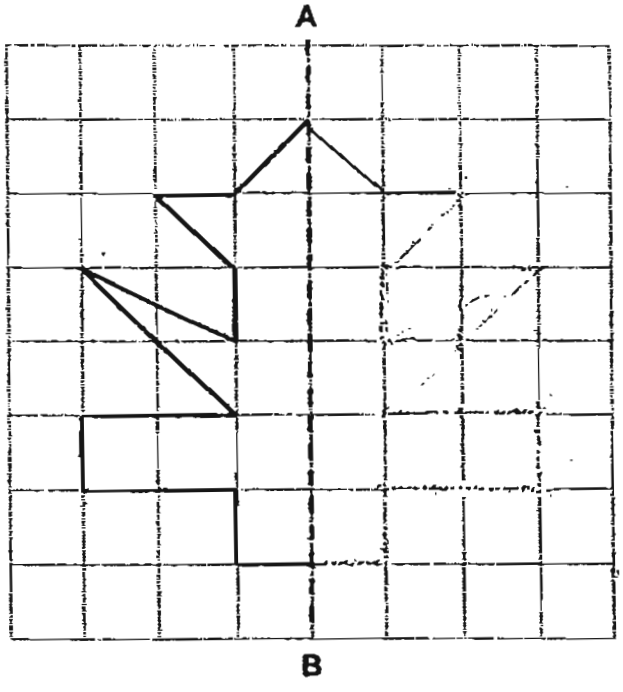
Name	Number of stamps	
	Singapore	Foreign
Ali	104	97
Ben	120	86
Cathy	73	135
Devi	94	112

35. Who collected the most number of stamps? [ ]

36. Cathy wanted to give $\frac{1}{3}$ of her foreign stamps to the other 3 children. If each child received the same number of stamps from Cathy, how many stamps did each of them receive?

[ ] stamps

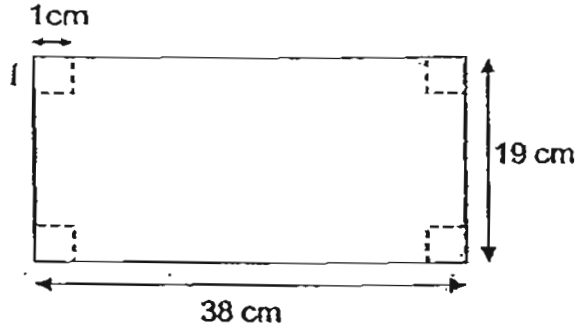
37. Complete the symmetric figure below with AB as the line of symmetry.



38. David is sitting on a chair in a hall. There are 6 chairs on his right and 3 chairs on his left. There are 7 rows in front of him and 10 rows behind him. There is an equal number of chairs in each row. How many chairs are there in the hall?

[ ] chairs

39. A piece of rectangular paper has a length of 38 cm and a breadth of 19 cm. Squares with sides 1 cm are cut out from each of the four corners. What is the area of the remaining piece of paper? (The figure is not drawn to scale.)



[ ] cm^2

40. In Figure 1 below, squares A to H are identical. What fraction of the figure is shaded?

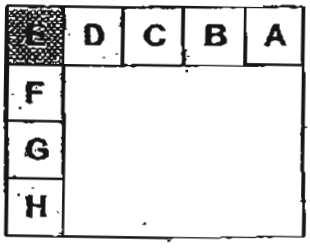


Figure 1

[ ]

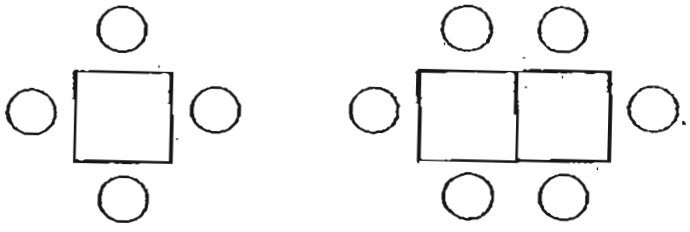
Section C (5 × 4 marks)

For each of the following questions, show your workings and mathematical statements in the space below each question. Write your answer in the answer space provided.

41. Weiming spent $\frac{2}{5}$ of his money on a mobile phone that cost $940. He also bought 2 books at $55 each. How much money had he left ?

42. Beatrice has 831 more picture cards than Alice. Carol has 490 more picture cards than Beatrice. The three girls have 7 228 picture cards altogether. How many picture cards does Carol have?

43. One child can sit at each side of a square table as shown below.



1 square table 2 square tables

(a) When 9 such tables are joined end to end to form a long table, how many children can be seated at the long table?

(b) How many tables are needed to be joined together to seat 30 pupils?

44. Joyce, Linda and Kate shared 225 beads. After Joyce had given 14 beads to Linda, they all had the same number of beads. Find the number of beads

(a) Joyce had **at first** .
(b) Linda had **at first** .

45. 4 identical rectangles are overlapped at the corners to form Figure A. The total area of the overlapped portions is 16 cm^2. The perimeter of Figure A is 36 cm. What is the area of the uncovered portion, **P** ?

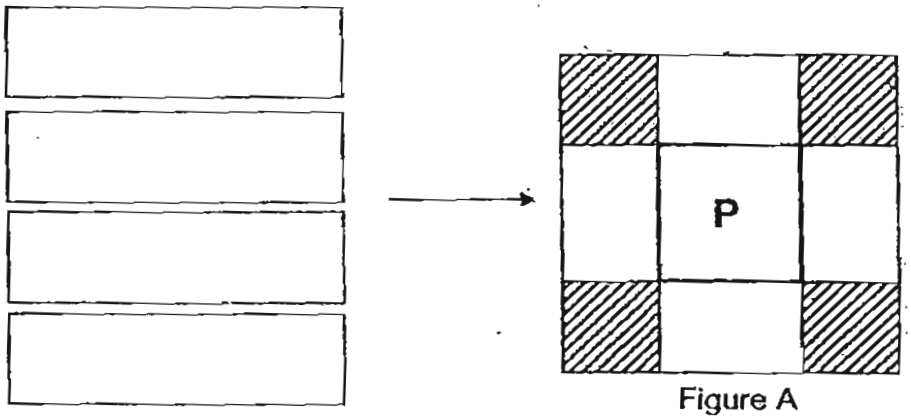
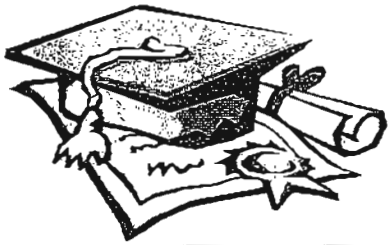


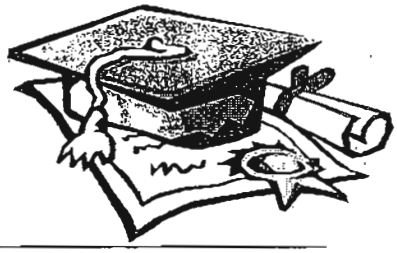
Figure A

End of Paper



ANSWER SHEET

EXAM PAPER 2011



SCHOOL : NAN HUA
SUBJECT : PRIMARY 4 MATHEAMATICS

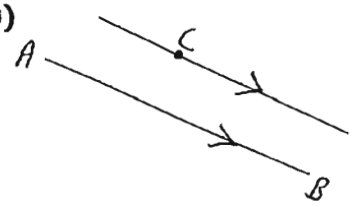
TERM : SA2

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

Q18	Q19	Q20
3	3	4

21)8904 **22)317, 371, 713, 731** **23)4** **24)4¼** **25)3/8**

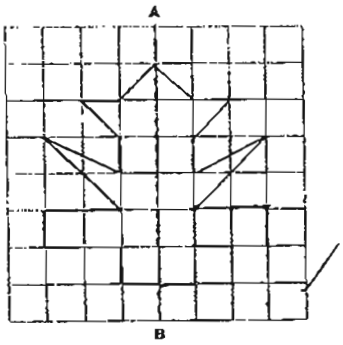
26)1.54 **27)18** **28)37.45** **29)a, d** **30)**



31)950ml **32)6h 30min** **33)36 years old**

34)7 erasers **35)Cathy** **36)15 stamps**

37)



38)180 chairs **39)718cm2** **40)1/20**

41)$9.40 ÷ 2 = $4.70
$55 x 2 = $110
$470 x 3 = $1410
$1410 – $110 = $1300
He had $1300 left

42)831 x 2 = 1662
1662 + 490 = 2152
7228 – 2152 = 5076
5076 ÷ 3 = 1692
1692 + 831 = 2523
2523 + 490 = 3013
Carol has 3013 picture cards.

43)a)9 x 2 = 18
18 + 2 = 20
20 children can be seated at the long table.
b)30 – 2 = 28
28 ÷ 2 = 14
14 tables are needed to be joined together to seat 30 pupils.

44)a)225 ÷ 3 = 75
75 + 14 = 89
Joyce had 89 beads at first
b)75 – 14 = 61
Linda had 61 beads at first

45)16 ÷ 4 = 4cm^2
4cm^2 = 2cm x 2cm
36cm^2 – 16cm^2 = 20cm^2
20 ÷ 8 = 2.5
2.5 x 2.5 = 6.25cm^2
The area of the uncovered portion P is 6.25cm^2