Section A: 15 Multiple Choice Questions (20 marks)

Section B: 15 Questions (20 marks)

Total Time for Paper 1: 50 minutes

INSTRUCTION TO CANDIDATES

1. Write your name and index number in the space provided.
2. Do not turn over the page until you are told to do so.
3. Follow all instructions carefully.
4. Answer all questions.
5. Shade your answers in the Optical Answer Sheet (OAS) provided for Questions 1-15.
6. You are not allowed to use the calculator for Paper 1.

Marks Obtained

Paper 1		/ 40
Paper 2		/ 60
Total		/ 100

Name : _____ (   )

Class : _____

Date : 27 February 2013   Parent's Signature :_____

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 the oval (1, 2, 3 or 4) on the

Optical Answer Sheet.

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1. 6 hundreds, 7 tenths and 9 thousandths is _____ .

    (1)   670.009

    (2)   600.970

    (3)   600.709 ..

    (4)   600.079

2. $\dfrac{2}{3} \div \dfrac{2}{5}$ is the same as _____ .

    (1) $\dfrac{2}{3} \div \dfrac{5}{2}$

    (2) $\dfrac{3}{2} \div \dfrac{2}{5}$

    (3) $\dfrac{3}{2} \times \dfrac{2}{5}$

    (4) $\dfrac{2}{3} \times \dfrac{5}{2}$

3. Express $\frac{6}{25}$ as a percentage.

    (1)   0.024%

    (2)   0.24%

    (3)   2.4%

    (4)   24.0%

4. $\frac{3}{8}$ = _____ : 48

    (1)   6

    (2)   16

    (3)   18

    (4)   24

5. Harry and Sunny had a total of 39 stickers. The ratio of Harry's stickers to Sunny's stickers was 4 : 9. How many more stickers had Sunny than Harry?

    (1)   12

    (2)   13

    (3)   15

    (4)   27

6. Rene has the same number of $2 notes and $5 notes. Their total value is $56. What is the value of all her $2 notes?

    (1) $14

    (2) $16

    (3) $28

    (4) $40

7. Mdm Lee used $\frac{1}{3}$ kg of flour to bake 5 similar cakes. How many kilograms of flour did she use to bake 2 such cakes?

(1) $\frac{1}{30}$ kg

(2) $\frac{1}{15}$ kg

(3) $\frac{2}{15}$ kg

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

8. Candy scored 60 marks for her first test and 75 marks for her second test. Each test was out of 100 marks. Find the percentage increase in her score.

(1) 15%

(2) 20%

(3) 25%

(4) 80%

9. Sally had as many red beads as green beads. She used $\frac{1}{4}$ of her red beads and $\frac{1}{2}$ of her green beads for a necklace. What fraction of her beads had she left?

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

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

(3) $\frac{5}{8}$

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

3

10. $\frac{1}{5}$ of Ken's salary is $\frac{1}{4}$ of John's salary. What is the ratio of John's salary to Ken's salary?

1) 1 : 20
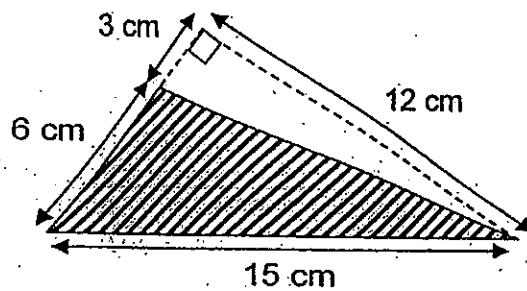
2) 20 : 1

3) 5 : 4

4) 4 : 5

11. Study the figure below carefully (not drawn to scale). Find the area of the shaded triangle.

(1) 36 cm²

(2) 45 cm²

(3) 54 cm²

(4) 90 cm²

3 cm

6 cm

12 cm

15 cm

12. For every $\frac{1}{6}$ of the wall that Helen paints, Joan will paint $\frac{1}{3}$ of it. What fraction of the wall will Joan paint if Helen paints $\frac{1}{8}$ of it?

(1) $\frac{1}{18}$

(2) $\frac{1}{16}$

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

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

13. Amanda and Darren shared the total cost of a present. Amanda paid $25 more than $\frac{2}{5}$ of the cost of the present. Darren paid $65. How much was the present?

   (1) $150

   (2) $180

   (3) $225

   (4) $270

14. There were 40 children at a birthday party. 30 of them were girls. How many percent more girls than boys were there?

   (1)   25 %

   (2)   50 %

   (3)   200 %

   (4)   300 %

15. Jenny has some blue and red marbles in Jar A and Jar B. Each jar has the same number of marbles. The number of blue marbles to the number of red marbles in Jar A is 1 : 2 while that in Jar B is 4 : 5.
   What is the ratio of the total number of blue marbles to the total number of red marbles that Jenny has?

   (1)   1:3

   (2)   2:5

   (3)   5:7

   (4)   7:11

Questions 16 to 25 carry 1 mark each. Questions 26 to 30 carry 2 marks each.

For each question from 26 to 30, **show your workings clearly in the space below it** and **write your answer in the space provided**. Give your answers in the units stated.

16. Express $10\frac{1}{2}\%$ as a decimal.

Ans:_____

17. Express 9 months as a fraction of 3 years in the simplest form.

Ans :_____

18. Mrs Wong can exchange 300 coupons for 200 stickers at a shop.
How many stickers can she exchange 900 coupons for?

Ans :_____ stickers

6

19. Lily and May shared a sum of money in the ratio 18 : 7.
What percentage of the sum of money did May receive?

Ans:_____%

20. The ratio of Ali's money to Ben's money to Clara's money is 1 : 2 : 3.
What is the ratio of Clara's money to the total amount of money that the three children have? (Write your answer in the simplest form)

Ans : _____ : _____

21. The figure below is made up of 9 identical squares of sides 2 cm each. By rearranging the squares in the figure, form a rectangle which has the largest possible perimeter. Find the perimeter of this newly formed rectangle.
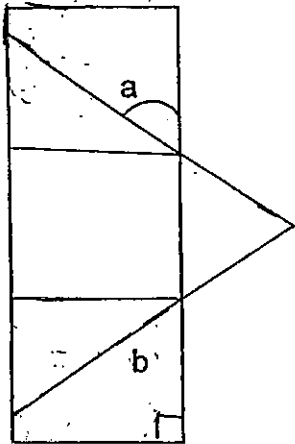

Ans:_____cm

7
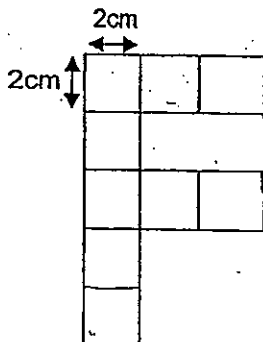
22. Mrs Phua saved a total of $70 in the first 5 months. She saved $50 in the sixth month. On the average, how much did she save in a month?

Ans : $_____

23. The figure below (not drawn to scale) is made up of an equilateral triangle and a rectangle. Find the sum of $\angle$a and $\angle$b.

Ans :_____ °

24. At a pet shop, the price of a swordtail is $\frac{5}{8}$ the price of a catfish. The price of a guppy is half the price of a swordtail. What is the ratio of the price of a catfish to the price of a swordtail to the price of a guppy?

Ans :___ : ___ : ___

8

25. A faulty clock gains $\frac{1}{4}$ min each day. How long does the clock take to gain $\frac{1}{4}$ h?

Ans: _____ day(s)

26. Parcel A is $\frac{1}{6}$ as heavy as Parcel B. Parcel B is $\frac{1}{2}$ as heavy as Parcel C. How many times is Parcel C as heavy as Parcel A?

Ans: _____ times

27. Sara went shopping with $300. She spent 35% of her money on a skirt and 30% of the remainder on a bag. How much did she spend on the bag?

Ans : $ _____

9

28. Mrs Wong bought a total of 42 curry puffs and tuna puffs. After giving away 27 curry puffs, there were $\frac{2}{3}$ as many curry puffs as tuna puffs left. How many curry puffs did Mrs Wong buy?

Ans:_____curry puffs

29. Look at the number line below.

$$\frac{2}{10} \qquad\qquad A \qquad B \qquad \frac{3}{5}$$
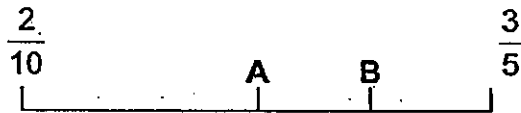
A is exactly midway of $\frac{2}{10}$ and $\frac{3}{5}$. B is exactly midway of A and $\frac{3}{5}$.
What is the value of B?
Write your answer in the simplest form.

Ans: _____

30. A square was enlarged so that its length on each side was tripled. What was the percentage **increase** in its perimeter?

Ans: _____%

End-of-Paper 1

Remember to check your work

10

NAN HUA PRIMARY SCHOOL
CONTINUAL ASSESSMENT 1 – 2013
PRIMARY 6

MATHEMATICS

Paper 2

Total Time for Paper 2: 1 hour 40 minutes

INSTRUCTION TO CANDIDATES

1. Write your name and index number in the space provided.
2. Do not turn over the page until you are told to do so.
3. Follow all instructions carefully
4. Answer all questions and show your workings clearly.
5. You are allowed to use a calculator.

Marks Obtained

Total		/ 60

Name : _____(   )

Class : _____

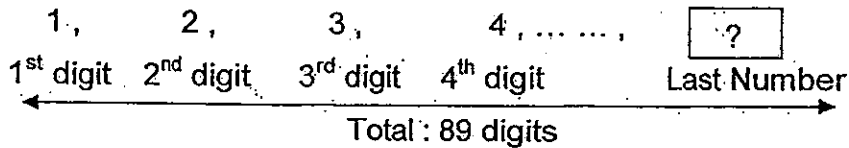Date : 27 February 2013   Parent's Signature :_____

Paper 2 (60 marks)

Questions 1 to 5 carry 2 marks each. Show your workings clearly in the space below it and write your answer in the space provided. Give your answers in the units stated.

1. At a fruit stall, durians were sold at $11.00 each. Marcus had $183.20. What is the most number of durians that he could buy with all his money?

Ans:_____durians

2. Shawn wrote some consecutive numbers starting from 1 on a piece of paper. He stopped after writing 89 digits. What was the last **2-digit number** that he wrote?

$$1, \quad 2, \quad 3, \quad 4, \ldots \ldots, \quad \boxed{?}$$

1st digit   2nd digit   3rd digit   4th digit   Last Number

Total : 89 digits

Ans:_____

3. At a party, there are 288 more girls than boys. The number of girls is 66% of the total number of children at the party. How many children are there at the party?

Ans:_____children

1

4. Judy spent 3 days making some kites for sale. Each day she made 4 kites more than the day before. She made a total of 42 kites. How many kites did she make on the first day?

Ans:_____kites

5. Ann and Sherry have some twenty-cent coins in the ratio 2 : 9 respectively. If Sherry has $14 more than Ann, how much does Sherry have?

Ans: $_____

For each question from 6 to 18, **show your workings clearly in the space below** it and **write your answer in the space provided**. The number of marks available is shown in brackets [ ] at the end of each question or part-question. Remember to include the units wherever possible.

6.   Alice has a 12m ribbon. She cut it into shorter pieces of $\frac{2}{5}$ m each.

   How much did Alice receive if she sold all the $\frac{2}{5}$ m ribbons at $0.55 each?

Ans:_____[3]

7.   Danny has read 368 pages of a book. He plans to finish reading the rest of the book in the next 9 days by reading the same number of pages each day. If he completes 36% of the book in the next 6 days, how many pages are there in the book?

Ans: _____ [3]

8. The figure below is the top view of a solid figure. The solid figure is made up of 3 layers of identical cubes with a single cube at the top layer.

(a) How many cubes are there in the solid figure?

(b) If the solid figure has a volume of 896 cm^3, find the length of each cube.
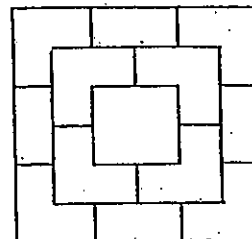
Ans: (a)_____[1]

(b)_____[2]

9. Allison kept 1075 beads into four jars, labelled A, B, C and D. Jar A had the least number of beads and Jar D had the most. The difference in the number of beads between Jar A and the number of beads in the other jars were 35, 55 and 85. How many beads are there in Jar A?

Ans:_____ [3]

4

10. 26 scouts spread themselves out evenly along a hiking route. A scout can be found after every $\frac{3}{5}$ km of the route. Find the distance between the first and the last scout.

Ans: _____ [3]

11. Mr Lee had 12 tins of biscuits. At first, each of the tins contained the same number of biscuits. He took 33 biscuits from each tin. After that, the total number of biscuits left in the 12 tins was equal to the total number of biscuits in 3 of the tins at first. What was the number of biscuits in each tin at first?

Ans: _____ [3]

12. A shop sells a file for $2.80. It gives a 25% discount for every 4 files bought during a sale. Hatta paid $154 for some files during the sale, what was the most number of files he bought?

Ans:_____[4]

13. I have some red and blue counters in a box.

I add in 20 red counters, the ratio of my red counters to my blue counters becomes 2 : 3.

Then I add in another 60 blue counters, the ratio of my red counters to my blue counters becomes 1 : 3.

How many counters do I have in the box at first?

Ans: _____ [4]

14. I do not have enough savings now to buy a bag. If I increase my savings by 30%, I would need another $1. If I increase my savings by 40%, I would have $34 more than I need. What is the cost of the bag?

Ans:_____[4]

8

15. The ratio of Glen's beads to Helen's beads to Liz's beads is 6 : 9 : 11. If Glen's beads is reduced by 10% and Helen's beads is increased by 10%, the new total number of beads that the three of them have is 4734. Find the number of beads that Liz has.

Ans: _____ [5]

16. Peter had some stamps. He lost $\frac{2}{3}$ of them and gave $\frac{1}{4}$ of the remainder to Ali. After that, his brother gave him 120 stamps.
The ratio of the number of stamps he had at first to the number of stamps he had at the end was 4 : 3.
How many stamps did Peter have at the end?

Ans: _____[5]

17. The figure below consists of a circle, a rectangle and an isosceles triangle overlapping one another. The ratio of the area of the circle to the area of the triangle to the area of the rectangle is 7 : 5 : 3. $\frac{1}{4}$ of the triangle is shaded.

The overlapped area of the circle and the triangle is $\frac{1}{4}$ the area of the circle.

The overlapped area of the circle and the rectangle is $\frac{1}{4}$ the area of the circle.

What percentage of the figure is unshaded? Give your answer in 2 decimal places.
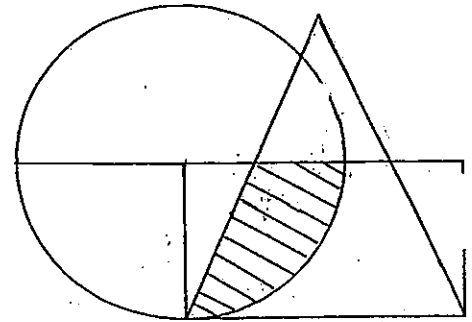
Ans: _____[5]

18. There were some ten-cent coins and fifty-cent coins in a piggy bank. The number of ten-cent coins in the piggy bank was $\frac{1}{2}$ the number of fifty-cent coins. Ahmad took out 5 fifty-cent coins and exchanged them for ten-cent coins. Then he put the money back into the piggy bank. The number of fifty-cent coins became $\frac{5}{8}$ the number of ten-cent coins. How much money was there in the piggy bank?

Ans: _____ [5]

End of Paper 2
Remember to check your work.
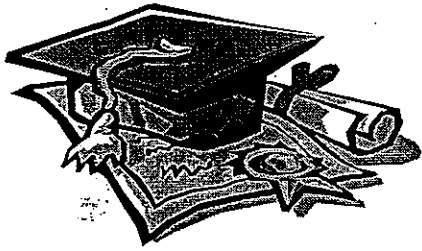
ANSWER SHEET

EXAM PAPER 2013
SCHOOL : NAN HUA
SUBJECT : PRIMARY 6 MATHEMATICS

TERM : CA1

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

16)0.105   17)¼   18)600 stickers   19)28%   20)1:2

21)40cm   22)$20   23)120°   24)16 : 10 : 5   25)60 day(s)

26)12 times   27)$58.50   28)33 curry puffs   29)½   30)200%

Paper 2

1)$183.20÷$11= 16durians

2)89 − 9 = 80
   80÷2 = 40
   40 + 9 = 49

3)100 − 66 = 34
   66 − 34 = 32
   32u→288
   1u→9
   100u→900 children

4)$42 \div 3 = 14$ (average)

<u>10</u> 14 <u>18</u>

average

Ans: 10 kites

5)$1.80 - $0.40 = $1.40

  $14 \div $1.40 = 10

  $1.80 x 10 = $18

6)$12/1 \div 2/5 = 12/1 \times 5/2 = 30$

  $30 \times $0.55 = $16.50

7)$3/50 \times 9/1 = 27/50$

  $368 \div 23 = 16$

  $16 \times 50 = 800$

8)a)$9 + 4 + 1 = 14$

  b)$64 = 4 \times 4 \times 4$

    $= 4cm$

9)$35 + 55 + 85 = 175$

  $1075 - 175 = 900$

  $900 \div 4 = 225$

10)$3/5km = 600m$

  $26 - 1 = 25$

  $25 \times 600 = 15000$

  $15000m = 15km$

11)$12u - 396 = 3u$

  $12u = 3u + 396$

  $9u = 396$

  $1u \rightarrow 44$

12)$4 \times 2.80 = 11.20$

  $11.20 \div 100 \times 75 = 8.40$

  $154 \div 8.40 = 18$ R2.80

  $18 \times 4 = 72$

  $72 + 1 = 73$

13)80

14)$1 + $34 = $35
$35 × 13 = $455
$455 + $1 = $456

15) G : H : L
6 : 9 : 11 x10
60u : 90u : 110u
- 6 + 9
_____

54u 99u 110u

110 + 99 + 54 = 263
4734 ÷ 263 = 18
1u→18
110U→1980

16)8/12 + 1/12 = 9/12
1 − 9/12 = 3/12
6U→120
1U→20
9U→180

17)7+7+5+2+2+13+2 = 38
7+7+5+2+2+5+13+2 = 43
38/43 X 100% ≈88.37%

18)16u − 40 = 5u + 125
11u − 40 = 125
11u = 165
1u →15
2u→30
30 x 50c = 1500c
= $15
$15 + $1.50 = $16.50