NAN HUA PRIMARY SCHOOL
CONTINUAL ASSESSMENT 2012
PRIMARY 5

MATHEMATICS

Paper 1

Section A: 15 Multiple Choice Questions (20 marks)

Section B: 10 Short Answer 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 calculator for Paper 1.

Marks Obtained

Paper 1		/ 40
Paper 2		/ 60
Total		/ 100

Name : _____

Class : _____

Date : _____ Parent's Signature: _____

Section A (20 marks)

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 on the oval (1, 2, 3 or 4) on the Optical Answer Sheet.

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1. Round off 789 598 to the nearest thousands.

   (1) 800 000

   (2) 790 000

   (3) 780 000

   (4) 789 600

2. How many eighths are there in $3\frac{3}{4}$?

   (1) 6

   (2) 15

   (3) 3

   (4) 30

3. Andy answered 36 out of 40 questions correctly during a quiz. What percentage of the questions did he answer **incorrectly**?

   (1) 10%

   (2) 36%

   (3) 40%

   (4) 90%

4. Evaluate $36 + 27 \div (3 + 6) \times 12$

(1) 72

(2) 84

(3) 117

(4) 468

5. $6 : 9 = \boxed{?} : 6$

(1) 5

(2) 9

(3) 3

(4) 4

6. Which of the following numbers is the smallest?

(1) 5.01

(2) 5.1

(3) 5.001

(4) 5.101

7. Find the value of $\frac{7}{9} \div 21$.

(1) 27

(2) $16\frac{1}{3}$

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

(4) $\frac{1}{27}$

8. Which of the following is equal to 1?

(1) $4 - 2 \times 4 \div 2$

(2) $4 \div 2 - 4 \div 4$

(3) $4 \times 2 - 4 \div 4$

(4) $4 + 4 - 4 \div 4$

9. Brenda has $\frac{1}{3}$ the amount of money that Calvin has. Calvin has $\frac{1}{4}$ the amount of money that Diana has. What fraction of Diana's money is Brenda's money?

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

(2) $\frac{1}{7}$

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

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

10. 6 similar cups of water can fill $\frac{2}{3}$ of a jug. What is the ratio of the capacity of the jug to the capacity of a cup?

(1) 6 : 1

(2) 9 : 1

(3) 3 : 2

(4) 4 : 3

11. Sam donated 30% of his savings and still had $350 left. How much money did he donate?

(1) $50

(2) $105

(3) $150

(4) $315

12. The length of a square is less than 10cm. The ratio of its area to its perimeter is 2 : 1. Which of the following can be the length of the square?

(1) 6 cm

(2) 7 cm

(3) 8 cm

(4) 9 cm

13. In 2428 x 30 x 5 = 2428 x 30 + 2428 x ?

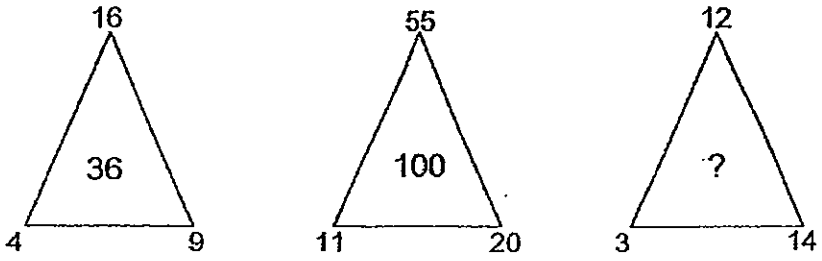
(1) 5

(2) 15

(3) 120

(4) 150

14. What is the missing number in the triangle?



(1) 84

(2) 56

(3) 50

(4) 42

15. A tall rectangular tank with a square base of sides 50 cm is filled with 100 litres of water. What is the height of water level in the tank?

(1) 2000 cm

(2) 2 cm

(3) 40 cm

(4) 4 cm

Section B (20 marks)

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.

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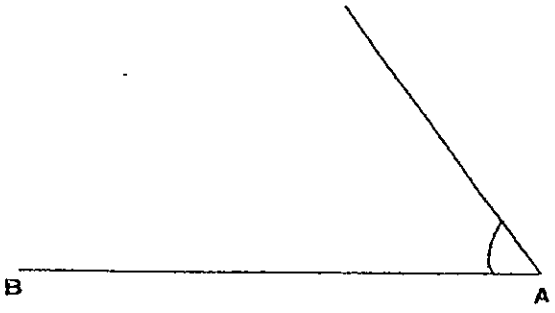
16. $50.8 \div 100 =$?

Ans: _____

17. Construct an angle $\angle BAC = 55^\circ$ and label point C.



18. Express 0.8 as a percentage.

Ans: _____ %

19. Find the sum of the first 5 multiples of 6.

Ans: _____

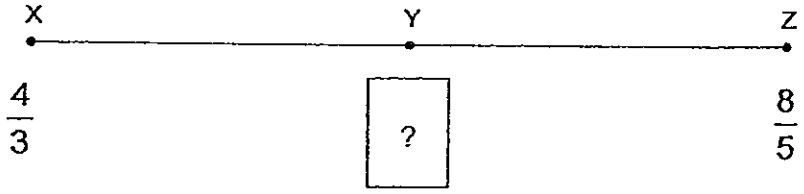
20. What is the largest whole number that can be rounded off to 1000?

Ans: _____

21. A florist has 500 roses and 450 tulips in her shop.
What is the ratio of the number of tulips to the total number of flowers in the shop? (Give your answer in the simplest form)

Ans: _____

22. In the number line below, point X represents $\frac{4}{3}$, point Z represents $\frac{8}{5}$ and point Y is halfway between point X and point Z. What is the ~~fraction~~ number represented by point Y?
Give your answer as a mixed number in its simplest form.

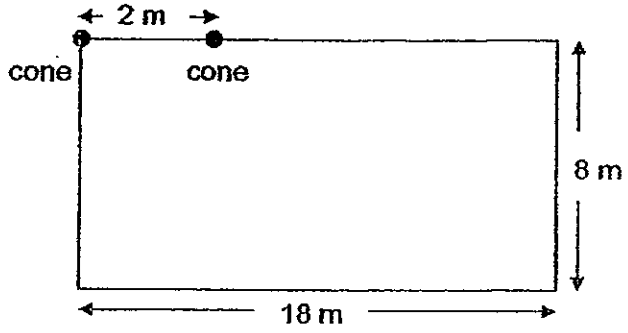


Ans: _____

23. The total cost of 5 similar files and 7 similar erasers is $32. If 1 file cost as much as 5 erasers, how much does 1 eraser cost?

Ans: $ _____

24. A rectangular assembly area measures 18 m by 8 m. Cones (represented by the dots shown below) were to be placed at equal intervals of 2 m all around the perimeter of the assembly area. How many cones would be used?



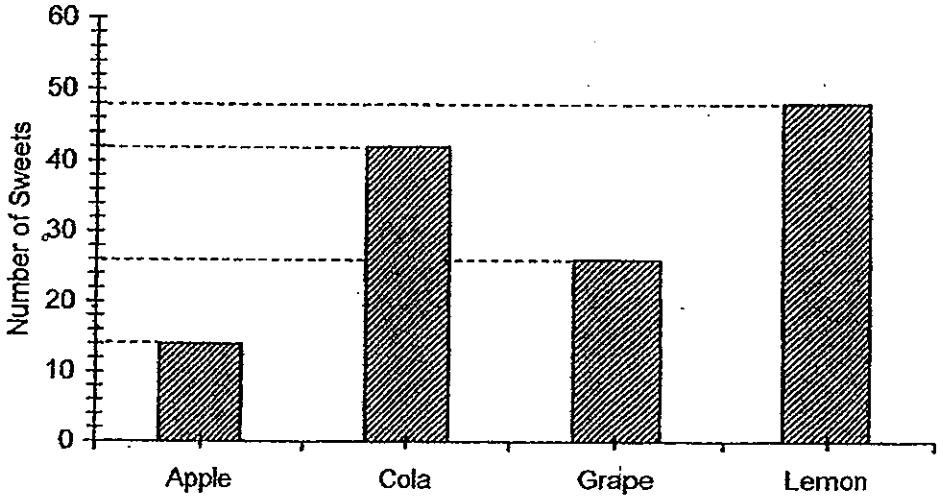
Ans: _____

25. Find the difference between the values of the digit 8 in 87 642 and 35 896.

Ans: _____

77

26. A bag contains sweets of the following flavour: Apple, Cola, Grape and Lemon. The bar graph below shows the number of sweets of each flavour in the bag.



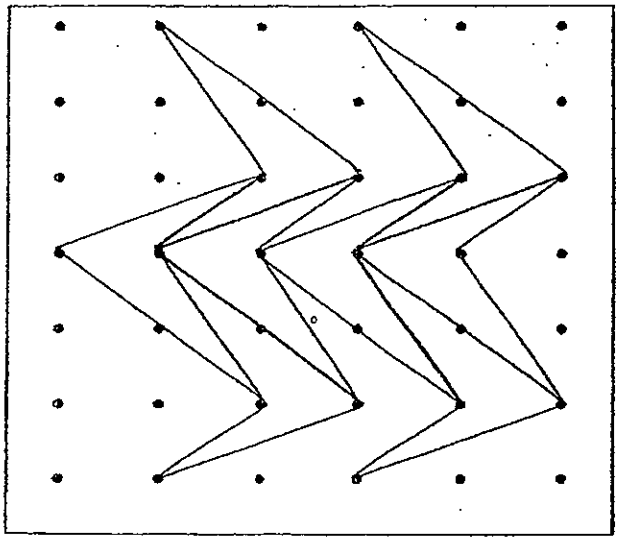
There were 40 pupils in the class. Some pupils took 3 sweets each while the rest took 4 sweets each. There were no sweets left in the end.
How many pupils took 4 sweets each?

Ans: _____

27. Sally had some money in her wallet. She spent a total of $80 on Saturday and Sunday. On Monday, she spent $\frac{1}{4}$ of the remainder. After that, she had 15% of the money she had at first. How much money did she have at first?

Ans: $ _____

28. The pattern in the box shows part of a tessellation. Extend the tessellation by drawing four more unit shapes in the space provided within the box.



29. The ratio of the area of square X to the area of square Y is 36 : 64. Find the ratio of the length of the side of square X to the length of the side of square Y.

Ans: _____

30. An empty tank measures 30 cm by 20 cm by 6 cm. Ming packed the maximum number of 3-cm cubes into the empty tank. How much space is not filled up by the cubes?

Ans: _____ cm^3

--- End of Paper 1 ---

NAN HUA PRIMARY SCHOOL
CONTINUAL ASSESSMENT 2 – 2012
PRIMARY 5

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 : _____ Parent's Signature : _____

Paper 2 (60 marks)

Questions 1 to 5 carry 2 marks each. Show your workings clearly in the space below each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.
(10 marks)

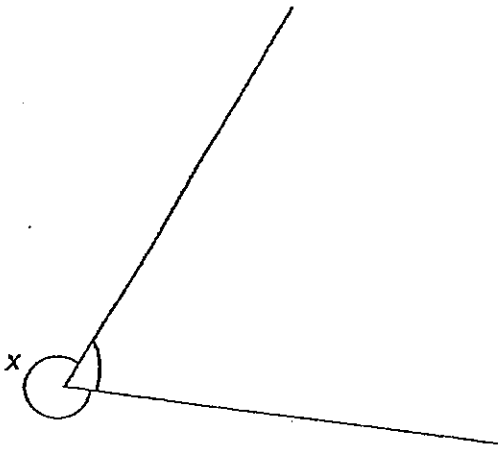
1. Judy weighs 26 kg. Ken is twice as heavy as Judy. Lenny is 4 kg lighter than Ken. What is their total mass?

Ans: _____ kg

2. Elise, Flora and Greta had some beads in the ratio 10 : 5 : 6. Elise gave Flora and Greta a total of 69 beads, so that all of them had the same number of beads. Find the total number of beads the girls had.

Ans: _____

3. Measure the labelled angle x.



Ans: _____ °

4. In year 2011, 12.5% of 40 pupils in the art club are boys. In year 2012, 10 more boys joined art club. What percentage of the pupils in art club are girls in year 2012?

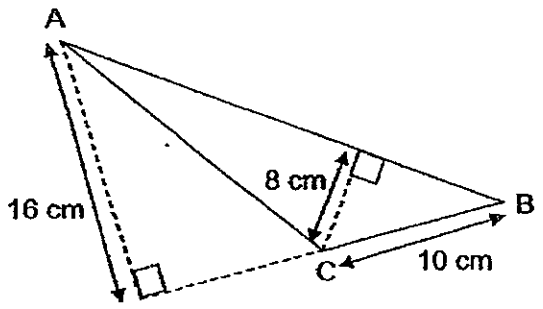
Ans: _____ %

5. Hassan had 748.72 m of cloth. He sold 150 cm on Monday, 43.78 m on Tuesday and 2300 cm on Wednesday. How much cloth had he left? (Round off your answer to the nearest metres)

Ans: _____ m

For questions 6 to 18, **show your workings clearly** in the space provided for each question and write the answers in the spaces 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. In the diagram shown below (not drawn to scale), find the area of triangle ABC.



Ans: _____ [3]

7. There were a total of 65 Chinese and English books in the class library. There were 4 times as many Chinese as English books. After 22 Chinese books and some English books were removed, there were 3 times as many Chinese as English books left. How many English books were removed from the class library?

Ans: _____ [3]

83

8. At first, Bobby had a total of 99 blue and purple balloons. 29 purple balloons burst. He then increased the number of blue balloons by 75%. After that, Bobby had a total of ~~127 balloons.~~ 103 balloons
How many blue balloons did he have at first?

Ans: _____ [3]

9. A sum of $1 870 was to be shared by some adults and children. Each adult received $5, each boy received $6 and each girl received $7. The ratio of number of adults to number of boys to number of girls was 5 : 6 : 7. How many people shared the sum of money?

Ans: _____ [3]

85

10. In a supermarket, fresh milk is sold at $2.65 per packet. During a promotion, 2 packets of fresh milk are sold at $5. Ali purchased the maximum number of packets of fresh milk using $18.
(a) What is the maximum number of packets that Ali can buy?
(b) How much change will he receive?

Ans: (a) _____ [1]

(b) _____ [2]

11. Mrs Lee bought a dress and a shirt at different discounted price. She spent a total of $88.70 on these two items. She spent $11.70 more on the dress than on the shirt.
(a) How much did she spend on the dress?
(b) She was given a 20% discount for the dress. The total discount given for the two items was $29.05. What was the original cost of the shirt?

Ans: (a) _____ [1]

(b) _____ [2]

12. A delivery company charges $3.20 for each parcel delivered on time. For each parcel delivered late, the company will pay the customer $0.80. In August, the company collected $1684 for delivery of 580 parcels. How many parcels were delivered late?

Ans: _____ [4]

13. Study the patterns of triangles and complete the table. Each side of the small triangle is 1 cm.

Figure 1

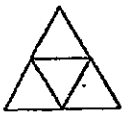


Figure 2

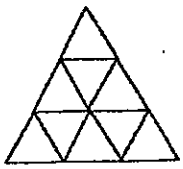


Figure 3

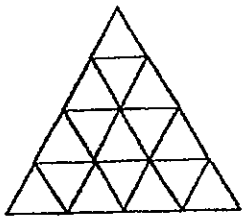


Figure 4

(a) Complete the table.

Figure	Number of Small Triangles	Perimeter (cm)
1	1	3
2	4	6
3	9	9
4	16	12
5	25	15
. . .	. . .	. . .
10	_____ [1]	_____ [1]

(b) A figure has a perimeter of 150 cm. How many small triangles are there in this figure?

Ans: (b) _____ [2]

14. Randy and Samuel shared \$425. After Randy spent $\frac{2}{3}$ of his money and Samuel spent $\frac{1}{4}$ of his money, Samuel had twice as much money as Randy. Find the amount of money Samuel had in the end.

Ans: _____ [4]

15. An empty tank measures 48 cm by 35 cm by 40 cm.
100 ball bearings each of volume 72 cm^3 are placed in the tank. The tank is then filled with water to the brim.

(a) How much water is needed to fill the tank to its brim?

(b) $\frac{1}{2}$ the number of ball bearings is later removed from the tank.
What is the volume of ball bearings removed?

Ans: (a) _____ [3]

(b) _____ [2]

91

16. Vincent had some jellybeans. He gave $\frac{1}{3}$ of it and 4 more to Amy. Then he gave $\frac{1}{4}$ of the remainder and 6 more to Benny. Finally, he gave $\frac{1}{2}$ of the remainder and 7 more to Calvin, and had 8 jellybeans left.

(a) How many jellybeans did he give to Benny?

(b) How many jellybeans did he have at first?

Ans: (a) _____ [2]

(b) _____ [3]

17. Alice, Betty and Cindy shared the cost of a present for Danny. Alice paid $\frac{2}{7}$ of the total paid by Betty and Cindy. Cindy paid $\frac{1}{5}$ of the total paid by Alice and Betty.

(a) What is the ratio of the amount paid by Alice to Betty to Cindy? Give your answer in the simplest form.

(b) Cindy paid \$64 less than Betty. How much was the cost of the present?

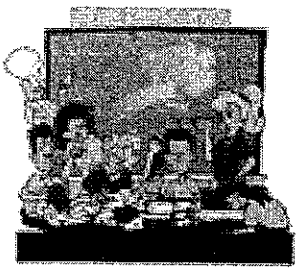
Ans: (a) _____ [3]

(b) _____ [2]

18. The ratio of Michael's cards to Nicholas' cards was 3 : 5. After Michael lost 21 cards and Nicholas bought another 30 cards, the ratio of Michael's cards to Nicholas' cards became 1 : 2. Find the number of cards Nicholas had in the end.

Ans: _____ [5]

End of Paper 2



ExamSutra 考试圣经

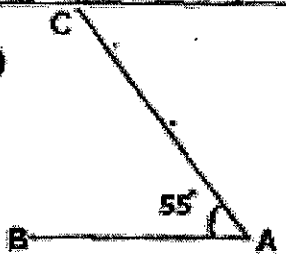
Answer Sheets

SCHOOL : NAN HUA
SUBJECT : PRIMARY 5 MATHEMATICS

TERM : CA2

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

16)0.508 17) 18)80% 19)90



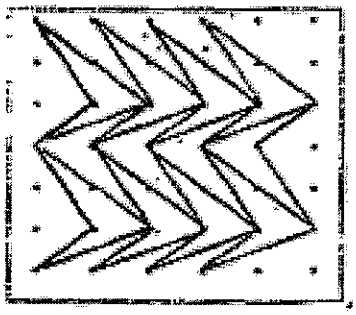
20)1499 21)9:19 22)17/15 23)$1 24)26

25)79200

26)26+14+42+48
= 40+90=130
40x3=120
130-120=10
4 – 3 = 1
10÷1=10

27)15%÷3 = 5%
15% + 5% = 20%
$80÷80 = 1
$1→1% of total
$100→100% of total

28)



29)3:4

30)360cm3

Paper 2

1)26 x 2 = 52
52 – 4 = 48
48 + 52 + 26 = 126kg

2)69 ÷ 3 = 23
10 + 5 + 6 = 21
23 x 21 = 483 beads

3)360° – 68° = 292°

4)40 ÷ 100 = 0.4
0.4 x 12.5 =5
10 + 5 = 15
50 – 15 = 35
35/50 x 100 = 70%

5)150cm = 15m
2300cm = 23m
748.72 – 1.5 – 43.78 – 23 = 680.44
680.44 ≈ 680m

6) ½ x 10 x 16 = 80cm²

7) C E total
(4 1)x13 65

52 13 65
- 22 - 3
(3 1)x10
30 10
13 – 10 = 3 English books

8)99 – 29 =70
103 – 70 = 33
33 ÷ 75 = 11/25
11/25 x 100 = 44 blue balloons

9)5 x $5 = $25
6 x $6 = $36
7 x $7 = $49
$25 + $36 + $49 = $110
$1870 ÷ $110 = 17
18 x 17 = 306 people

10)a)3 x 2 = 6
6 + 1 = 7
b)18 – (5 x 3) – 2.65 = $0.35

11)a)$88.70 – $11.70 = $77
$77÷2 = $38.50
$38.50 + $11.70 = $50.20
b)$50.20÷8 = 6_{11/40}$
6_{11/40}$ x 2 = $12.55
$29.05 – $12.55 = $16.50
$16.50 + $38.50 = $55

12)580 x $3.20 = $1856
$1856 – $1684 = $172
$172÷4 = 43 parcels

13)a)100 , 30
b)150÷3 = 50
50 x 50 = 2500 small triangles

14)6u + 8p = $425
2u = 3p
6u = 9p

9p + 8p = $425
17p→$425
1p→$425÷17 = $25
6p→25 x 6 = $150

15)a)48 x 35 x 40 = 67200
72 x 100 = 7200
67200 – 7200 = 60000
60000cm^3 = 60L
b)72cm^3 x 50 = 3600cm^3

16)a)8 + 7 = 15
15 x 2 = 30
30 + 6 = 36
36÷3 = 12
12 + 6 = 18
b)36 + 12 = 48
48 + 4 = 52
52÷2 = 26
52 + 26 = 78

17)a)

A	BC	Total
(2	7	9) x 2
4	14	18

C	AB	Total
(1	5	6) x 3
3	15	18

15 – 4 = 11
14 – 3 = 11

A	B	C
4u	11u	3u

b)8u→$64
1u→$64÷8 = $8
18u→$8 x 18 = $144
18u→$144

18)5u + 30 = 6u – 42
1u→72
5u→72 x 5 = 360
360 + 30 = 390 cards

96
End