NAN HUA PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 1 – 2010
PRIMARY 5

MATHEMATICS

Paper 1

Section A: 15 Multiple Choice Questions (20 marks)

Section B: ~~10~~ 15 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 : 13 May 2010 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 (OAS).

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1. 788 710 = 700 000 + 80 000 + 8000 + _____.

   What is the missing value in the blank?

   (1) 710 × 10

   (2) 700 × 10

   (3) 70 × 10

   (4) 71 × 10

2. The number of seats in a stadium is about 20 000.
   What could be the actual number of seats in the stadium if it is rounded off to the nearest hundred ?

   19 900.

   (1) 19 899

   (2) 19 995

   (3) 20 054

   (4) 20 101

3. Round off 76.468 to the nearest **hundredth**.

   (1) 76.4

   (2) 76.46

   (3) 76.47

   (4) 76.5

4. Find the value of $24 \div 4 + (20 - 6) \times 2$.

(1) 40

(2) 34

(3) 14

(4) 10

5. What is the missing number in the box?

$$\frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4} + \frac{1}{4} = \square \times \frac{1}{4} + 1$$

(1) 1

(2) 2

(3) 5

(4) 4

6. What is the sum of <u>all</u> the factors of 8 ?

(1) 6

(2) 9

(3) 14

(4) 15

7. If 12 oranges cost \$5, how much will 48 such oranges cost?

1) \$20

2) \$48

3) \$60

4) \$68

8. Which of the following is <u>not</u> the same as $\frac{2}{9}$?

(1) $\frac{1}{9} \times \frac{2}{1}$

(2) $\frac{1}{9} + \frac{1}{9}$

(3) $1\frac{9}{1} - \frac{7}{9}$

(4) $\frac{9}{1} \times \frac{1}{2}$

9. A glass is $\frac{1}{4}$ full of milk. The milk is then poured into an empty jug which has a volume twice that of the glass. What fraction of the jug is filled with milk now?

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

(2) $1\frac{3}{4}$

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

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

10. 567 000 ÷ 10 = 567 x _____.

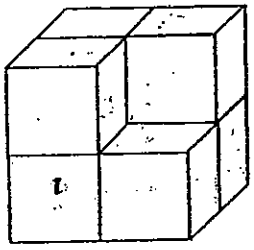
(1) 1

(2) 10

(3) 100

(4) 1000

John glued some cubes together to form the following solid figure. He then painted the whole solid red. Find the total number of cube faces which were painted red.



(1) 12

(2) 24

(3) 36

(4) 48

12. The ratio of Ryan's pens to Yani's pens is 4 : 7.
Yani has 9 pens more than Ryan.
How many pens do they have altogether ?

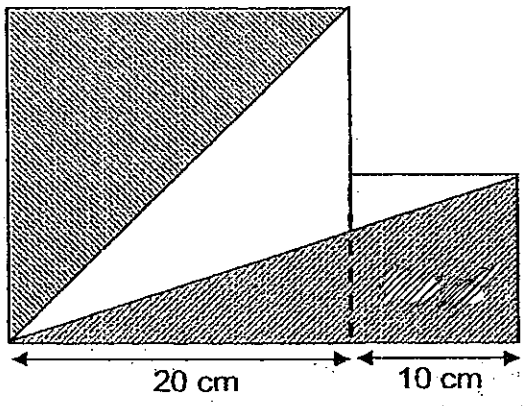
(1) 12

(2) 21

(3) 33

(4) 99

13. The figure below is made up of two squares of sides 20 cm and 10 cm. Find the **unshaded** area.



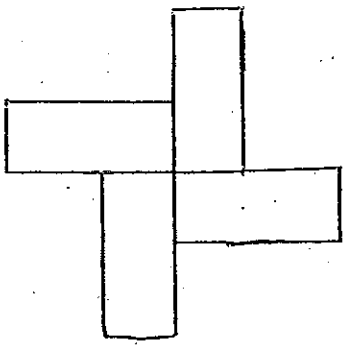
(1) 350 cm²

(2) 200 cm²

(3) 150 cm²

(4) 100 cm²

14. The figure below is not drawn to scale. It is made up of 4 identical rectangles each measuring 5 cm by 2 cm. Find the perimeter of the figure.



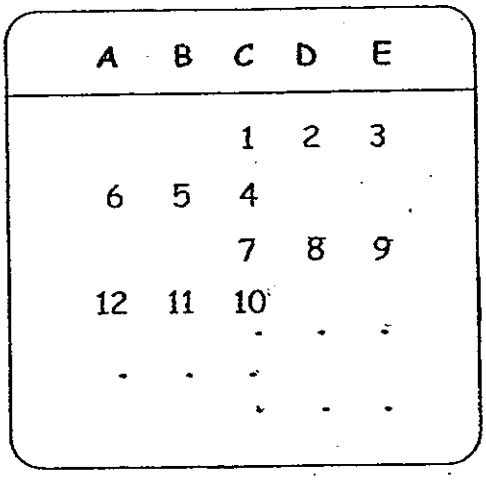
(1) 28 cm

(2) 40 cm

(3) 48 cm

(4) 56 cm

15. Study the number pattern below.
8 is in column D. The dots mean that the numbers continue in the same manner. In which column will 93 be in?



(1) B

(2) C

(3) D

(4) E

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.

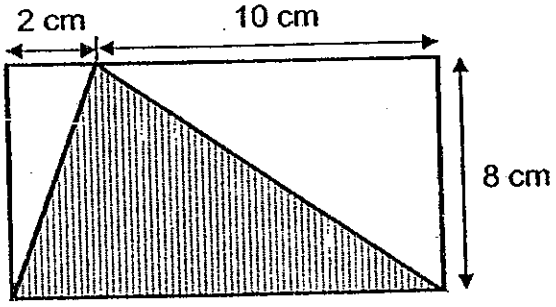
16. Five million, four hundred and three thousand and two written in numeral is _____.

Ans: _____

17. Express $3\frac{2}{5}$ kg in grams.

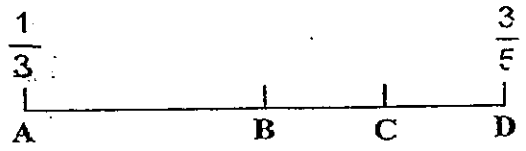
Ans: _____g

18. Find the area of the shaded triangle.



Ans: _____cm^2

19. Look at the number line below.



A represents $\frac{1}{3}$, D represents $\frac{3}{5}$, AB = BD and BC = CD.
What fraction is represented by C? (Give your answer in its simplest form.)

Ans: _____

20. Use all the digits 8, 5, 3, 2 to form the <u>smallest</u> four-digit whole number that is divisible by 5.

Ans: _____

21. A ribbon is cut into three pieces in the ratio 5 : 4 : 1.
The longest piece is 5 metres. Find the length of the ribbon.

Ans: _____ m

22. There are 12 pears and 8 mangoes in a basket. The ratio of the number of pears to the total number of fruits in the basket is _____.
Express your answer in the simplest form.

Ans: _____ : _____

23. Water drips from a tap at 2 $m\ell$ per second into an empty pail.
How much water is collected in 2 minutes?

Ans _____ $m\ell$

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

Ans: _____ : _____

25. When a number is divided by 3, the remainder is 1. When the same number is divided by 5, the remainder is also 1. What is the **smallest possible** number?

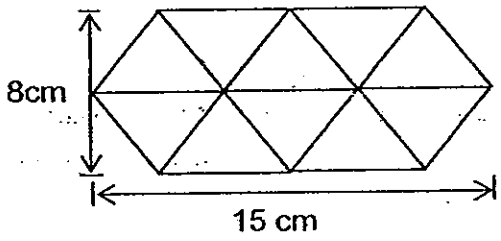
Ans: _____

26. The Vivo Aquarius carries a total of 672 people on a trip.
The ratio of passengers to crew members is 5 : 3.
How many **more** passengers than crew members are there ?

Ans: _____ more

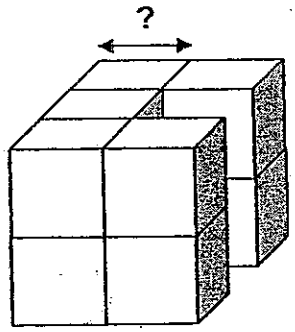
27. The figure below is made up of 10 identical triangles.

Find the area of the whole figure.



Ans: _____ cm^2

28. The total volume of the cubes shown below is 640 cm^3.
What is the length of each side of the cube?



Ans: _____cm

29. Jojo and Sam shared some stamps in the ratio 3 : 8.
Sam gave $\frac{1}{2}$ of his stamps to Jojo.
Express Sam's stamps as a fraction of Jojo's stamps at the end.

Ans: _____

30. Danny had some beads. After sharing his beads equally among 9 classmates and himself, he bought another 36 beads. He then had 154 beads. How many beads had he **at first** ?

Ans: _____beads

End-of-Paper 1

NAN HUA PRIMARY SCHOOL
SEMESTRAL ASSESSMENT 1 – 2010
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 : 13 May 2010

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. Peter brought 128 cakes to a party. Each person ate 2 cakes.
At the end of the party, there were a dozen of cakes left.
How many people were at the party?

Ans: _____people

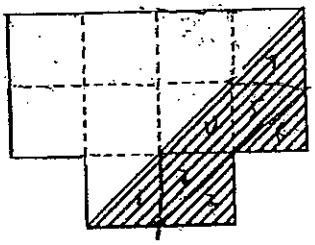
2. The time from 7 a.m. till now is $\frac{1}{3}$ of the time from now till 11 a.m.
What is the time now?

Ans: _____a.m.

3. The total number of people who attended a concert last Saturday was 2 000.
There were 3 times as many adults as the number of children.
The number of men was $\frac{1}{2}$ the number of women.
Find the number of men who attended the concert.

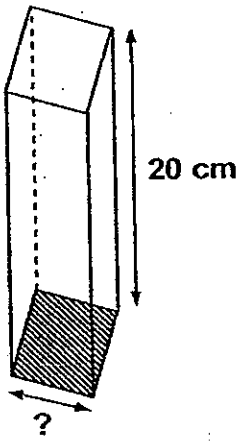
Ans:_____men

4. The figure below is made up of 3 overlapping identical squares.
The area of the shaded part is 63 cm^2.
Find the area of one such square.



Ans : _____ cm^2

5. The cuboid shown below has a volume of 720 cm^3.
What is the length of each side of its square base?



Ans : _____ cm

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. Sally gave $\frac{1}{3}$ of her money to her father and $\frac{1}{2}$ of it to her sister.
Then she divided the rest of the money equally among 3 brothers.
What fraction of the money did each brother get?

Ans: _____ [3]

7. The children at a camp are divided equally into Team A and Team B.

The ratio of the number of boys to the number of girls in Team A is 1 : 3 and in Team B it is 7 : 5.
What is the ratio of the number of boys to the number of girls at the camp?
(Give your answer in its simplest form.)

Ans: _____ : _____ [3]

8. Kenji and Justin share some stickers in the ratio 2 : 5.
If Justin gives Kenji 50 stickers, the ratio of the number of Kenji's stickers to the number of Justin's stickers becomes 3 : 4.
Find the total number of stickers they both have together.

Ans: _____[3]

9. Nikki had $\frac{3}{4}$ as many stamps as Meiji.
After Nikki had bought another 30 stamps, she still had 5 stamps fewer than Meiji. Find the number of stamps Nikki had **at first.**

Ans: _____[3]

10. A rectangular tank measuring 50 cm by 20 cm by 30 cm is half filled with water. Jasper then turns on a tap. Every 1 minute, 5 litres of water flow from the tap to the tank. How long will it take to fill the tank to its brim?

Ans: _____[3]

11. Jane read some pages of a storybook on Friday.
On Saturday, she read $\frac{1}{6}$ of the remaining pages.
If she still had half of the book to complete, what fraction of the book did she read on Friday? (Give your answer in its simplest form.)

Ans: _____[3]

12. Gabriel, Krishna and Ali sold a number of balloons.

Gabriel sold $\frac{1}{8}$ of the balloons. Krishna sold 6 more balloons than Gabriel.

Ali sold 36 balloons. How many balloons did they sell altogether?

Ans: _____ [4]

13. Leon had 4 times as much money as what Susan had.
Leon spent $24 on food and $26 on transport.
Then, he found that he now has twice as much money as Susan.
How much did Leon and Susan have altogether <u>at first</u> ?

Ans: _____ [4]

14. Tom and Lily had some marbles each. If Tom gave Lily 250 marbles, both would have an equal number of marbles. If Lily gave Tom 250 marbles, Tom would have 3 times as many marbles as Lily. How many marbles did Lily have?

Ans:_____ [4]

15. Bernie and Kenji share a certain sum of money. Kenji's share is \$120 more than Bernie's share. If Kenji gives $\frac{1}{5}$ of her share to Bernie, they will have the same amount of money.

a) How much is Kenji's share?

b) Express Kenji's share as a fraction of the total sum of money.

Ans: (a) _____ [3]

Ans: (b) _____ [2]

16. The ratio of the number of women to the number of men in a club is 4 : 7.

$\frac{1}{4}$ of the women and $\frac{3}{7}$ of the men wear spectacles. 238 members do **not** wear spectacles.

a) Find the total number of members in the club.

b) Find the number of members who wear spectacles.

Ans: (a) _____[3]

Ans: (b)_____[2]

17. Study the number patterns below.

Line	Number Patterns	Sum
1	$2 + 6 = 2 \times 2^2$	8
2	$2 + 6 + 10 = 2 \times 3^2$	18
3	$2 + 6 + 10 + 14 = 2 \times 4^2$	32
4	$2 + 6 + 10 + 14 +$ **a)** ____ $= 2 \times$ **b)** ____	**c)** ____
...	...	...
(d)	...	200

a) Fill in the missing number for the 4^{th} line in the box above.

b) Fill in the missing number for the 4^{th} line in the box above.

c) Find the **sum** for the 4^{th} line in the box above.

d) Which **line** has a sum of 200?

Ans: (a)_____[1]

Ans: (b)_____[1]

Ans: (c)_____[1]

Ans:(d)_____[2]

18. A farmer had the same number of goats, ducks and cows at first.
After 76 cows, some goats and ducks were sold, there were 180 animals left.
There were twice as many goats as ducks left.
The number of cows left was 30 fewer than the number of goats left.

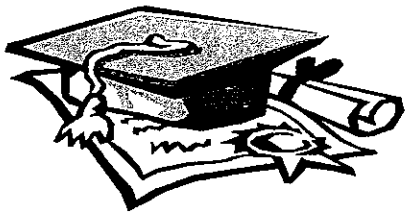
a) How many ducks were left?

b) How many animals were there at first?

Ans: (a) _____ [3]

Ans: (b) _____ [2]

End-of-Paper

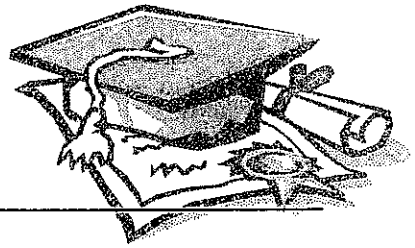


ANSWER SHEET

EXAM PAPER 2010

SCHOOL : NAN HUA PRIMARY
SUBJECT : PRIMARY 5 MATHEMATICS

TERM : SA1



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

16)5403002 17)3400g 18)48cm2 19)8/15 20)2385

21)10m 22)3:5 23)240ml 24)5:4 25)16 26)168 more

27)100cm2 28)4cm 29) 4/7 30)1180 beads

Paper 2

1)58 people 2)8 am 3)500 men 4)72cm2 5)6cm

6)1/18 7)5:7 8)350 stickers 9)105stamps 10)3 minutes

11)2/5 12)56 balloons 13)$125 14)750 15)a)$300 b)5/8

16)a)374 members b)136 members 17)a)18 b)52 c)50 d)9

18)a)42 ducks b)390 animals