

NAN HUA PRIMARY SCHOOL SEMESTRAL ASSESSMENT 1 – 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

Marks Obtained	
Paper 1	/ 40
Paper 2	/ 60
Total	/ 100

Name:	(1
Class:		
Date: 10 May 2012	Parent's Signature:	_

Section	A	(20	marks)

(2)

(3)

(4)

4000

6000

8000

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.

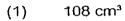
Make your choice (1, 2, 3 or 4) and shade on the oval (1, 2, 3 or 4) on the Optical Answer Sheet.

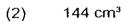
5 hundreds, 6 tenths and 7 thousandths is ______ 560.007 (1)500.760 (2) (3)500.607 (4) 500.067 The number of people in a stadium is 50 000 when rounded off to the nearest 2. ien thousand. What is the greatest possible number of people in the stadium? (1) 45 499 (2) 45 500 (3)54 999 (4) 55 000 3. Which of the following is the closest estimate of 198.8×39.6 ? (1)3000

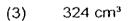
- Which of the following is the smallest number that can be divided by 2 with no remainder?
 - (1) 5305
 - (2) 3550
 - (3) 2033
 - (4) 2358
- 5. Which of the following fractions is smaller than $\frac{1}{5}$?
 - (1) $\frac{10}{45}$
 - (2) $\frac{8}{35}$
 - (3) $\frac{7}{30}$
 - (4) $\frac{3}{20}$
- 6. Which of the following is **not** a factor of 48 and 54?
 - (1) 6
 - (2) 2
 - (3) 3
 - (4) 9

- 7. A machine can produce 1390 cards in 6 minutes. At this rate, how many cards can it produce in $\frac{1}{2}$ hour?
 - (1) 650
 - (2) 3900
 - (3) 6500
 - (4) 39 000
- 8. How many fifths must be added to $\frac{11}{20}$ to make $\frac{3}{4}$?
 - (1) 1
 - (2) 2
 - (3) 3
 - (4) 4
- 9. $450 + (300 50) \div 5 \times 2 =$
 - (1) 70
 - (2) 280
 - (3) 550
 - (4) 1000

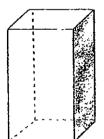
- The capacity of a jug is twice the capacity of a glass.
 The jug is 1/4 full of water: All the water from the jug is then poured into the glass without spilling. What fraction of the glass is filled with water now?
 - (1) $\frac{1}{8}$
 - (2) $\frac{1}{4}$
 - (3) $\frac{1}{3}$
 - (4) $\frac{1}{2}$
- 11. The figure shows a cuboid with a square base of area 9 cm². The area of the shaded face is 36 cm². What is the volume of the cuboid?







(4) 432 cm³



- 12. The area of a rectangle is 180 cm². The ratio of its length to its breadth is 5:1. What is its breadth?
 - (1). 6 cm
 - (2) 9 cm
 - (3) 30 cm
 - (4) 36 cm

13.	How 4.30	many right angles has the minute hand of a clock moved from 2 p.m. to p.m.?
	(1)	12
•	(2)	10
	(3)	3
	(4)	6
14.		block of metal, 2 cm by 6 cm by 9 cm, is melted and made into 4 similars. What is the length of each cube?
	1)	6 cm
	(2)	9 cm
	(3)	3 cm ,
	(4)	12 cm
1 5.		ch cost \$120 more than a bag. Janet used $\frac{1}{3}$ of her money to buy the nd was then short of \$50 to buy the watch. How much did Janet have at
	1)	\$150
	2)	\$210
	3)	\$260
	4)	\$360

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.

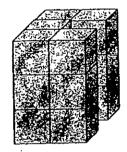
16. Nine million and two written in numeral is ______.

Ans: _____

17. Express $3\frac{4}{7}$ as an improper fraction.

Ans: _____

18. The figure below is formed by some cubes. Find the volume of the figure if the volume of each cube is 1000 cm³.



Ans: _____ cm³

19. $\frac{1}{5} + \frac{1}{5} + \frac{1}{10} + \frac{1}{10} + \frac{1}{10} = \times \frac{1}{10} + \frac{1}{2}$

What is the missing number in the box?

Ans: _____

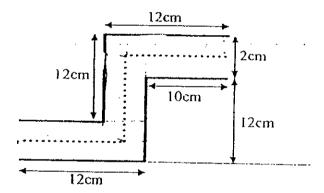
20.	There are 4 consecutive odd-numbered cards arranged in a row in increasing order. The sum of the second and third numbered cards is 108. What is the
	value on the first numbered card?
	Ans:
21.	At a buffet promotion, for every 3 paying adults, the 4 th adult gets to dine for free. If Mr Lee dines with 29 friends at the restaurant, how many of them dine(s) for free?
22.	At a concert, the ratio of the number of women to the number of men is 3:1. The ratio of the number of women to the number of children is 1:4. What is the ratio of the number of adults to the number of children at the concert? (Write your answer in the simplest form.)
	Ans:
	7

23.	If 360m ℓ of water is collected from a leaking container in 2 minutes. At this constant rate, how much water is collected from the container per second?
	Ansmℓ
24 . ·	$\frac{1}{4}$ of Anna's money is twice of Wendy's money. Find the ratio of Wendy's money to Anna's money.
	Ans:
25.	The 3rd multiple of 8 is the same as the 4th multiple of a number. What is the number?
	Ans:
	/3

26. The number of Sally's and Cindy's five-cent coins is in the ratio 3:8 respectively. Given that Sally's share of five-cent coins is \$2 less than Cindy's share, how many five-cent coins does Sally have?

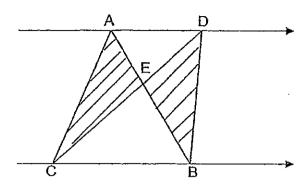
Ans:	five-cent	coins
		001110

27. The diagram below shows a 2cm wide pathway. A dotted line is drawn exactly in the middle of the pathway. Find the length of the dotted line.



Ans: _	 cn
	/4

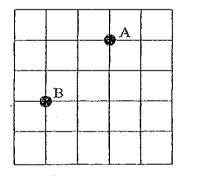
28. The figure below is made up of 2 triangles CAB and CDB, which are between 2 parallel lines. The area of triangle CAB is 480cm² and that of triangle CEB is 189cm². Find the total shaded areas.



Ans:	cm ²

29. Study the square grid and compass below carefully.

Sammy is standing at Point A. In which direction is Point B from her?





Ans: _		
	, ———	
	}	
	ļ	14

30. Study the pattern below and find the value of 11111 × 11111.

1.	1 × 1	11
2.	11 × 11	121
3.	111 × 111	12321
4.	1111 × 1111	1234321
5.	11111 × 11111	?

Ans:	

/2

End-of-Paper 1



NAN HUA PRIMARY SCHOOL SEMESTRAL ASSESSMENT 1 – 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

Date: 10 May 2012

Total	/ 60		
Name :		()
Class:			

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. There was $\frac{4}{5}$ ℓ of orange juice in a jug. Mrs. Tan poured all of it into 3 glasses equally without spilling. How much orange juice was there in each glass?

Ans: _____(

2. $\frac{4}{9}$ of a certain number is 48. What is half of the number?

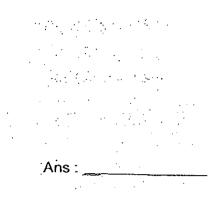
Ans: _____

3. $\frac{1}{3}$ of Gaga's money is the same as $\frac{2}{5}$ c' Lala's money. Find the ratio of Lala's money to Gaga's money. (Give your answer in the simplest form)

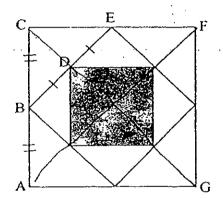
Ans: _____

/6

4. The difference_between two numbers is 400. The bigger number is thrice the smaller number. What is the sum of the two numbers?



The figure below is made up of 3 squares with different areas where AB = BC and BD = DE. The area of the shaded square is 16 cm².
 Find the area of square ACFG.



		2
٩ns	•	cm ⁴
7115	-	 CHI



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.

Ren	nember to include the units where	ver possible.		_
6.	Keith had a number of books for			
	Sunday, he sold $\frac{1}{5}$ of the rema	ining books and wa	s left with 40 boo	ks. How
• • •	many books did he have at firs	t?		
	Maria Maria			
•				
			Ans:	[3]
			7413.	
	,			
7.	For every 50 cents that Helen sinto her savings. When Helen been contributed by her mother	has \$44.80 in her s	contributes anothe savings, how muc	er 30 cents ch of it has
			Ans:	[3]

8. Kate has 4 1/2 times as many

stickers as Terry. After giving Terry 1/3 of her stickers, Kate had 50 stickers more than Terry. How many stickers did Kate give to Terry?



9. Jeter saved \$84 in 4 weeks. If each week he saved \$6 more than he did the previous week, how much did he save in the last week?

Ans: _____[3]



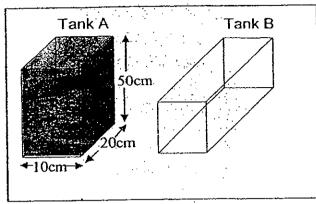
10. Eddie had thrice as many stickers as Angel. Eddie used $\frac{2}{3}$ of his stickers and gave $\frac{1}{4}$ of the remainder to Angel. Eddie then had 474 stickers left. How many stickers did Angel have at the end?

Ans: _____ [3]

11. There are a total of 500 red and blue beads in a box. The ratio of the number of red beads to the number of blue beads is 2 : 3. How many red beads must be added to the box so that the ratio of the number of red beads to the number of blue beads is 2 : 1?

12. In Figure 1, Tank A is completely filled with water and Tank B is empty.

Water is poured from Tank A into Tank B without spilling. The heights of the water level in the two tanks are now equal as shown in Figure 2. The diagrams are not drawn to scale.



Tank A Tank B

Figure 1

Figure 2

- (a) What is the volume of water in Tank B in Figure 2?
- (b) Tank B (in Figure 2) is $\frac{5}{6}$ filled with water. What is its full capacity?

Ans:	(a)	 [2	2]
		 •	•



13. A number sequence is shown below.

What is the sum of the first 102 numbers in this sequence?

Ans: _____[4]

/4

14. Kennie bought a bag of coloured marbles. Each of the colours is expressed as a fraction of the total number of marbles in the bag below.

Red	Green	Yellow	Blue
1 10	. 3/10	1 4	?

- (a) What fraction of the marbles are blue? Leave your answer in the simplest form.
- (b) If there are 400 red and green marbles, how many marbles are there in the bag altogether?

Ano: (a)	10
Ans: (a)	 ₹ 4.



- 15. Amanda had a sum of money. She spent $\frac{1}{3}$ of it on a dress. She then spent $\frac{1}{2}$ of the remaining money plus \$2 on a handbag. Finally she had with \$10 left.
 - (a) How much did the handbag cost?
 - (b) How much money did she have at first?

Ans: ((a)	[3]
	. ~ ,	 1 ~ 1



- 16. Mrs Tan had the same number of apples, oranges and pears at first.

 She gave away 70 apples and used some oranges and pears to make a mixed fruit juice. Then she had 180 fruits left. Among the fruits left, there were twice as many oranges as pears. The number of apples was 20 fewer than the number of oranges in the end.
 - (a) How many apples were left?
 - (b) How many pears were used?

	/5
Ans: (b)	[2]
Ans: (a)	[3]

17. There were some sweets in Boxes A, B and C.

Box A contained $\frac{1}{7}$ of the total number of sweets in Boxes B and C.

The ratio of the number of sweets in Box B to the total number of sweets in Boxes A*and C is 3:1.

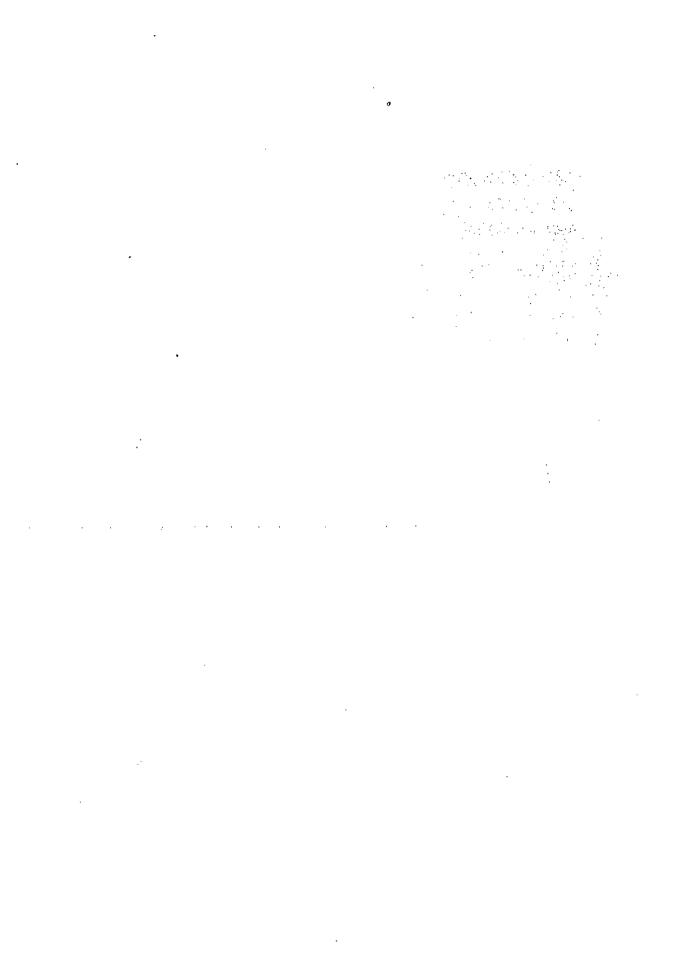
If there are 30 more sweets in Box B than Box A, find the total number of sweets in Boxes A, B and C.

Ans:	 [5
	15

Jane went shopping at a departmental store. If she buys 6 plates and 10 cups, 18. she will have \$12 left. If she buys 10 plates and 6 cups, she will need another \$8. (a) Given that a cup costs \$3, how much does a plate cost? (b) How much does Jane have? Ans: (a) _____[3]

End-of-Paper

12





ExamSutra 考试圣经

Answer Sheets

EXAM PAPER 2012

SCHOOL: NAN HUA

SUBJECT: PRIMARY 5 MATHEMATICS

TERM : SA1

Q1 Q2 Q3 Q4	05 06	(07)	MA MO	Oth	#"52 N	013	74±	-	
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			. 9	<u>"F</u>	ණී	. # 1	£	47	<u> 4</u> 1

16)9000002

17)25/7

 $18)1000 \times 15 = 15000$ cm

19)2

20)51

21)7

22)1:3

23)360÷3 = 3ml

24)1:8

 $25)8 \times 3 = 24$ $24 \div 4 = 6$

26)24

27)12 - 1 = 11

12+1-1=12

12 - 1 = 11

11 + 12 + 11 = 34cm

28)480 - 189 = 291 $291 \times 2 = 582$ cm₂

29)west

30)123454321

Paper 2

$$1)4/5 \div 3/1 = 4/5 \times 1/3 = 4/15$$

$$2)48 \div 4 = 12$$

$$12 \times 9 = 108$$

$$108 \div 2 = 54$$

3)5:6

$$4)3-1=2$$

2u->400

1u->200

~4a⇒800:

$$5)4 + 4 = 8$$

 $8 \times 8 = 16$ cm₂

$$10)474 \div 3 = 158$$

 $158 \times 5 = 790$

$$(2:1) \times 300$$
 $500:300$

$$600 - 200 = 400$$

$$13)1 + 3 + 1 + 3 + 2 = 10$$

$$102 \div 5 = 20R2$$

$$20 \times 10 = 200$$

$$1 + 3 = 4$$

$$200 + 4 = 204$$

b)
$$400 \div 16 = 25$$

 $40 \times 25 = 1000$

There are 1000 marbles in the bag altogether.

$$16)a)180 + 20 = 200$$

$$200 \div 5 = 40$$

$$40 \times 2 = 80$$

$$80 - 20 = 60$$

$$b)60 + 70 = 130$$

$$130 - 40 = 90$$

17)5u
$$\rightarrow$$
30
1u \rightarrow 30 \div 5 = 6
8u \rightarrow 8 x 6 = 48

96 End