

NAN HUA PRIMARY SCHOOL CONTINUAL ASSESSMENT 1 - 2009 **PRIMARY 6**

MATHEMATICS

Paper 1

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 :	<u> </u>	· ·	(
Class :			:		
Date : 10 March 2009	Parent's Signature :	-		<u> </u>	

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

1.	5 4	3	is the same as	
	6	4	is the same as	

(1)
$$\frac{5}{6} \div \frac{4}{3}$$

(2)
$$\frac{6}{5} \div \frac{3}{4}$$

$$(3) \qquad \frac{6}{5} \times \frac{3}{4}$$

$$(4) \qquad \frac{5}{6} \times \frac{4}{3}$$

2. Express 0.502 as a percentage.

- (1) 0.502%
- (2) 5.02%
- (3) 50.2%
- (4) 502%

3. $2\frac{1}{8} =$:8

- (1) 3
- (2) 11
- (3) 17
- (4) 21

 Harold had \$480. He spent \$80 and saved the rest. Find the ratio of the amount of money he saved to the amount of money he spent.

- (1) 1:6
- (2) 6:1
- (3) 1:5
- (4) 5:1

5. 0.99.× 100 = ± 100

- (1) 0.99
- (2) 99
- (3) 990
- (4) 9900

.6. How many $\frac{3}{4}$ kg packets of flour make up a total of 12kg?

- (1) 16
- (2) $12\frac{3}{4}$
- $(3) \quad \emptyset$
- (4) $\frac{1}{16}$

- 7. 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?
 - (1) $2\frac{1}{4}$
 - (2) $1\frac{3}{4}$
 - $(3) \frac{1}{2}$
 - (4) $\frac{1}{8}$
- 8. 150% of a number is 600. What is the number?
 - (1) 25
 - (2) 200
 - (3) 400
 - (4) 900
- 9. Angel has thrice as many marbles as Bradley. Charmaine has 4 times as many marbles as Angel. What is the ratio of the number of marbles Bradley has to the number of marbles Charmaine has?
 - (1) 1:4
 - (2) 1:8
 - (3) ,1:12
 - (4) /1:15

10. The figure below is made up of 7 identical rectangles of length 30 cm each. What is the perimeter of the figure?

- (1) 210 cm
- (2) 250 cm
- (3) 260 cm
- (4) 290 cm

11. $2\frac{1}{4} = \frac{1}{4} + \frac{1}{4} +$

- $(1) \qquad \frac{1}{8}$
- (2) $\frac{2}{9}$
- (3) $\frac{1}{2}$
- (4) $\frac{9}{8}$

12. Jane baked a pie. She ate $\frac{1}{2}$ of it and cut the rest into 6 equal pieces. She gave 1 piece to her sister and kept the rest for her parents. What fraction of the pie did she keep for her parents?

- (1) $\frac{1}{12}$
- (2) $\frac{1}{3}$
- (3) $\frac{5}{12}$
- (4) $\frac{5}{6}$

- 13. At Cleo's birthday party, there were 90 children. There were 10 more girts than boys, express the number of boys as a percentage of the number of girts.
 - (1) 45.5 %
 - (2) 55.5 %
 - (3) 80 %
 - (4) 125 %
- 14. The figure below is made up of 1 triangle overlapping 2 similar rectangles. Find the ratio of the area of the triangle to the area of the 2 rectangles.



- (1) 1:1
- (2) 1:2
- (3) 1:3
- (4) 1:4
- The total cost of 12 textbooks and workbooks is \$300. $\frac{3}{4}$ of the books are textbooks and the remaining books are workbooks. The ratio of the cost of a textbook to the cost of a workbook is 3:1. Find the price of a workbook.
 - (1) 10
 - (2) 30
 - (3) 90
 - (4) . 100

Section B (20 marks)

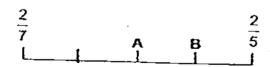
Questions 16 to 25 carry 1 mark each. Questions 26 to 30 carry 2 marks each. For each question from 26 to 30, show your workings clearly in the space below it and write your answer in the space provided. Give your answers in the units stated.

16. Express $5\frac{7}{1000}$ as a decimal.

17. A rope is cut into three pieces in the ratio 5 : 4 : 1. The longest piece is 36m longer than the shortest piece. Find the length of the rope.

Ans:		m
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18. Look at the number line below.



A is midway of $\frac{2}{7}$ and $\frac{2}{5}$. B is midway of A and $\frac{2}{5}$. What is the value of B?

Ans:	
, ww.	

19.	The average of 4 numbers is 25. When a number is added, the average becomes 30. What is the value of the number added?
	Ans:
20	
20.	For every dollar Ariel has, Benny has \$5. For every dollar Benny has, Clara has \$3. What is the ratio of Ariel's money to Benny's money to Clara's money?
-	?
	Ans:::
21.	The ratio of Valerie's pens to Gail's pens is 4:7. Gail has 12 pens more than Valerie. How many pens do they have in all?
	Ans:pens
	•

•			
22	For every $\frac{1}{2}$ of the surface area of	the walls in a room that Ama	anda paint
	Kelly paints $\frac{1}{4}$ of it. What fraction of	f the wall will Kelly paint if Am	landa naim
	$\frac{1}{7}$ of it?	<u>.</u> .	
	-		
	·		
		-	
		Ans:	
23.	After using 40% of the rice, Kenric ga	201	
	How many kilograms of rice did he u	ive 33 kg of rice to Maria. se if he had 49% of the rice lef	1?
		·. :	
	•		
	·		
		Ana -	
		Ans :	kg
24.	Grace bought some beads. She gave same number of beads as the numbe beads equally into 4 bowls. Each bow did Hamld give her?	' Al hoode cha had last Cha	4 -11 41
	did Harold give her?		y beaus
	·		
			-
		Ans:	beads

25.	A chair cost $\frac{1}{4}$ as much as a table. Mr. Tan bought 2 chairs and a table. He
	paid \$48 altogether. What was the cost of a chair?

Ans: \$_____

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

Ans: ___

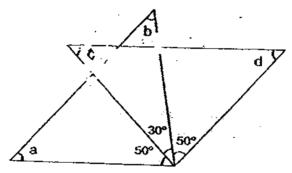
27. Wendy spent $\frac{3}{8}$ of her money to buy a bag. She then spent \$50 on food. The amount she had left was $\frac{1}{2}$ of the original amount. How much did she have at first?

Ans: \$_____

28. Jermaine received $\frac{1}{4}$ of the sum of money received by her two brothers. If her brothers received an equal amount of the money each, what percentage of the total sum of money did each brother receive?

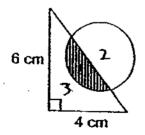
Ans	-	
VII 4/3	•	%

29. The figure below is made up of two triangles which are not drawn to scale. Find the sum of $\angle a$, $\angle b$, $\angle c$ and $\angle d$



Ans	•	a
77(13)		-

30. The figure below is made up of a triangle and a circle. The ratio of the shaded part of the triangle to the unshaded part of the triangle is 1:3. If the ratio of the unshaded part of the circle to the shaded part of the circle is 2:1, find the total area of the of the figure.



Ans	•			
7113	_			

End-of-Paper 1
Remember to check your work



NAN HUA PRIMARY SCHOOL CONTINUAL ASSESSMENT 1 - 2009 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 : 10 March 2009	Parent's Signature :	

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.

 Janice had thrice as many apples as mangoes. After selling 135 apples, she had only half as many apples as mangoes left. How many apples had she left?

Ans:____ apples

2. Palm trees are planted $\frac{1}{8}$ km apart along a straight road which measures $\frac{3}{4}$ km. How many palm trees are there on the road including the one at the start?

Ans: palm trees

3,	In a box, 80% of the beads are red and the rest are green. How many percomore red beads than green beads are there in the box?	ent
		-
	\cdot	
	Ans: <u></u> 9	6
4.	Kenric takes $\frac{3}{4}$ min to fold a paper plane. How many such paper planes does	
	ha fald in 3 to	
	he fold in $\frac{3}{4}$ h?	
	Ans:paper plan	es
_		
5.	Diane has 25% more stamps than Eugene. If Diane gives 25 stamps to Eugene	
	they will have the same number of stamps. How many stamps does Eugene ha	ve
	at first?	

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. $\frac{5}{6}$ m of raffia is cut into shorter pieces. Each of the shorter pieces must measure $\frac{1}{4}$ m.
 - a) How many $\frac{1}{4}$ m pieces are there?
 - b) What is the length of the remaining piece?

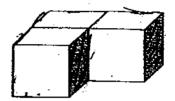
Ans: a)	[1]
b)	[2]

7. The ratio of Jonathan's weekly saving to Galton's weekly saving is 8:5. If Jonathan saves a total of \$288 more than Galton in two weeks, what is Galton's weekly saving?(Assuming that Jonathan saves the same amount each week)

Ans:		1	[3]
CH 1-2-			

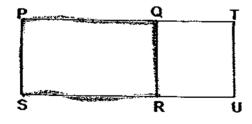
8. The solid below is made up of 3 identical cubes.

- If the solid has a volume of 648 cm³, find the length of each cube. Find the total surface area of the solid. (a)
- (b)



Ans: (a)	[1]
(b)	[2]

The figure below is made up of Rectangle PQRS and Square QTUR. The ratio 9. of the length of the square to the length of the rectangle is 4.7. If the area of Square QTUR is 256 cm², find the area of Rectangle PQRS.



Ans:	[3
WHO.	19

		•••
		-
10.	Brenden han 400/	
•0-	Brendan has 40% more paperclips than Me	elvin. If Brendan gives Melvin 32
	papercrips, raterant will flave 40% more paper	erclips than Brendan. How many
	paperclips has Brendan?	in the state of th
	•	
•		•
-		•
		·
	•	-
	-	
	•	•
		Ans:
	•	Aris:[3]
	·	•
11.	Kelly and Angel shared a sum of \$1200. Aft	er Kelly had spent 1 of her man
	and Angel spent \$93, they each had the same	5 Ther mon
		e amount of money left.
	How much money did Angel have at first?	
	•	
	,	
		•
	•	
		Ans:[3]

12. Ali, Baba and Carapa shared a packet of stickers. Ali took half the bag of stickers and 2 stickers. Baba took ¹/₂ the remaining packet of stickers and 4 stickers. Carapa took the rest of the stickers. If Carapa received 20 stickers, how many stickers were there in the packet at first?

Ans: _____[4]

Zen always saves 20% of his salary. When his salary is increased by 5%, his savings increases by \$22. How much is his new salary?

Ans: [4]

- Adrian and Bill shared some stamps in the ratio of 1:2. When Bill gave some 14. stamps to Adrian, the ratio of Adrian's stamps to Bill's stamps became 5:4.
 - a) If Bill had 48 stamps left, how many stamps did they have altogether?
 - b) How many stamps did Bill give Adrian?

15. There were some \$2, \$5 and \$100 notes in Jane's wallet. The value of the \$2, \$5 and \$100 was in the ratio 4: 5: 3. After spending 50% of her \$100 notes, 100 of her \$2 notes and $\frac{4}{5}$ of her \$5 notes, Jane had \$450 left. Find the total amount of money Jane had in her wallet at first.

Ans: [5]

16. A, B, C and D are four different numbers.

A is 25% of B, C and D.

B is 60% of C.

D is 50% of B and C.

- a) Find the ratio of A:B:C
- b) Express A as a percentage of C.

Ans: (a) ______(3]

(b)____[2]

- 17. A bookstore settls 3 pens and 2 files for \$8.50. It also settls 4 similar pens and 3 similar files for \$12. Mr Lim spent \$90 to buy a number of these pens and files in the ratio of 2:3.
 - a) Find the cost of one file.
 - b) How many such files did he buy?

Ans: (a)	[2]

18. Study the pattern below.

Line	Numbers	Sum
1	1	1
2	1+3	4
3	1+3+5	9
4	1+3+5+7	16
5:	(a)	(b)
f-74		
(c)		6400

- a) Write down number sequence for the 5th line in the box above. [1]
- b) Write down the sum of all the numbers in the 5th line in the box above. [1]
- c) Which line has a sum of 6400?

Aŋs:		[1	1	
------	--	----	---	--

d) The sum of all the numbers on two consecutive lines is 221. Which are the two lines?

	[2]
	·

End of Paper 2
Remember to check your work.



ANSWER SHEET

EXAM PAPER 2009

SCHOOL: NAN HUA PRIMARY

SUBJECT: PRIMARY 6 MATHEMATICS

TERM : CA1

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	09	010	011	012	013	014	015	ŀ
4	3	_3	4	4	1	4	3	3	3	1	3	3	2	1	ĺ

16)5.007

17)90m

18)13/35

19)50

20)1:5:15

21)44 pens

22)1/14

23)120kg

24)10 beads

25)\$8

26)9 a.m.

27)\$400

28)40%

29)200°

30)18cm₂

Paper 2

1)27 apples	2) 7 palm trees
3) <u>60</u> x 100% =300% 20	4) ³ / ₄ h=45 min 45÷ ³ / ₄ = 4/3 =60
5)25%÷2=12.5% 12.5%>25 25%>50 100%>200 stamps.	6)a)There are 3 pieces b) 1/3 x ¹ / ₄ =1/12
7)\$288÷2=\$144 3u->\$144 1u->\$144÷3=\$48 5u->\$48x5=\$240 Galton's weekly saving is \$240.	8)a)6cm b)504cm

9)4u→256cm₂	10)40%>32					
1u→64cm	20%>16					
7u→64cmx7=448cm ₂	140%>112					
The area of the rectangle is 448cm ₂	Brendan has 112 paperclips					
11)9u→\$1200-\$93=\$1107	12)24x2=48					
1u→\$1107÷9=\$123	48+2=50					
4u→\$123x4=\$492	50x2=100					
Angel→\$492+\$93=\$585	There were 100 stickers in the					
Angle have \$585 at first.	packet at first.					
13)100%+5%=105%	14)a)4u→48					
20/100 x 105%=21%	1u->12					
21%-20%=1%	9u->108					
1%=\$22	b)2u→12x2=24					
105%=\$2310						
15)\$2x100=\$200	16)a) 3: 3: 5					
13u→\$650	b)60%					
1u→\$50						
24u→1200						
17)a)2	18)a)1+3+5+7+9					
b)30	b)25					
-	c)80					
•	d)10,11					

