

NAN HUA PRIMARY SCHOOL SEMESTRAL ASSESSMENT 2 – 2014 PRIMARY 5

MATHEMATICS

Paper 1

Section A: 15 Multiple Choice Questions (20 marks)

Section B: 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

Nama .

Paper 1	Booklet A	/ 40
	Booklet B	740
Paper 2		/ 60
Total		/ 100

			
Class :	P 5		
Date:	29 October 2014	Parent's Signature :	

Section A (20marks)

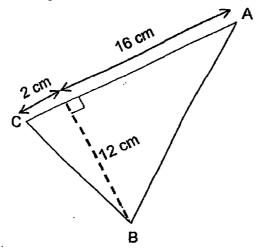
Questions 1 to 10 carry 1 mark each.

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

- 1. Round off 70 255 to the nearest hundreds.
 - (1) 70 000
 - (2) 70 200
 - (3) 70 260
 - (4) 70 300
- What is the value of $36 \div 3 \times 2 + 3$? 2.
 - (1) 60
 - (2) 27
 - (3)9
 - (4) 4
- 3. The length of one side of a cube is 4 cm. What is the volume of the cube?
 - 8 cm³ (1)
 - 16 cm³ (2)
 - 32 cm³ (3)
 - (4) 64 cm³

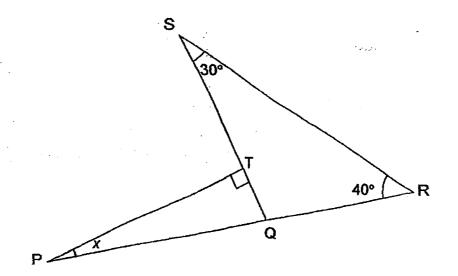
- 4. What is the value of $\frac{1}{8} \frac{1}{11}$?
 - $(1) \frac{3}{88}$
 - $(2) \quad \frac{3}{19}$
 - $(3) \frac{3}{11}$
 - $(4) \frac{3}{8}$
- 5. In the figure below, not drawn to scale, is a triangle. What is the area of triangle ABC?



- (1) 96 cm²
- (2) 108 cm²
- (3) 120 cm²
- (4) 180 cm²

- 6. How many eighths are there in $\frac{3}{4}$?
 - (1) 32
 - (2) 24
 - (3) 6
 - (4) 5
- 7. Which one of the following is equivalent to $\frac{12}{5}$?
 - $(1) \quad 2\frac{2}{5}$
 - $(2) \frac{12}{7}$
 - $\binom{3}{5}$ $1\frac{2}{5}$
 - $(4) \frac{5}{12}$

8. The diagram below shows 2 triangles. Triangle QPT is a right-angled triangle and PQR is a straight line. Find $\angle x$.



- (1) 10°
- (2) 20°
- (3) 70°
- (4) 110°
- 9. Jasmine saved a total of \$20.25 last week. She saved 4 times as much money this week. How much money did she save altogether for the 2 weeks?
 - (1) \$60.75
 - (2) \$81.00
 - (3) \$101.25
 - (4) \$141.75

10.	There	itio of the numb were 24 cupcal altogether?					
	(1)	18					<i>:</i> :,
	(2)	32	¢	·. • • • •			
	(3)	42					
	(4)	56	•				
11.	Mandy What	y, Nancy and O percentage of t	scar shared so he candies did	ome candies Nancy have	in the ratio 1	: 5 : 2.	
	(1)	12.5 %					
	(2)	25 %					
	(3)	50 %					
	(4)	62.5 %					
12.	than t	was given 3 d he second one. of the 3 durians	. The mass of	the third du	rian was 3.3 k	g. If the total	
	(1)	0.75 kg					
	(2)	1.45 kg			·	. •.	
	(3)	1.5 kg			 		
	(4)	2.95 kg			•		

		(1)	44			٠,	
		(2)	86	٠			
		(3)	88				
		(4)	172				
	14. ":	Samm will be	ny is 9 years you 45 years. How	inger than Tan old is Sammy	nmy. In 3 years' ti now?	me, their total age	
		(1)	15 years old				
		(2)	18 years old				٠
		(3)	21 years old				
		(4)	30 years old				,
	15.	The patt	tern below is for	med with the fo	ollowing shapes.		
	(₩ 1st		OQ\$)
•		What is	the 209 th shape	in the above p	pattem?	·	
		(1)	\circ				
		(2)	Å				
	!	(3)	\Box				
	•	(4)	\circ				

Section B (20 marks)

Questions 16 to 25 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. [10 marks]

16. The table below shows the number of packets of cookies sold by 6 scouts during a carnival. How many scouts sold more than 15 packets of cookies?

Do not write in this space

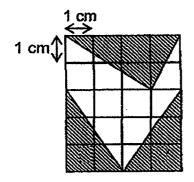
Name of scouts	Adam	Ben	Charles	Dan	Eugene	Freddy
Number of packets sold	9	32	15	28	20	8

Ans:

17. Find the value of $\frac{2}{7}$ + 10 . Give your answer in the simplest form.

Ans:

18. In the diagram below, what is the unshaded area?

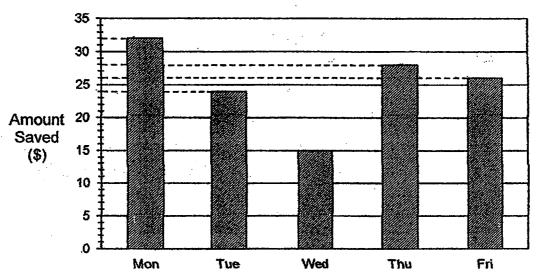


Ans: cm

· .		
•		
19.	In a class of 80 pupils, 52 are girls. What is the ratio of the number of boys to the number of girls?	Do not writ
•		
	Ana	
y .	Ans:	
20.	A number with 2 decimal places is 65 when rounded to the nearest whole number. What is the biggest possible value of this number?	
·		
	A	
	Ans:	<u> </u>
21.	In a box, 40% of the pens are red and the rest are blue and green. There is an equal number of blue and green pens. What percentage	
	of all the pens are blue?	
		 '
•		
	Ans:%	11

The bar graph below shows the amount saved by Sunny from Monday to Friday. Study the graph carefully and answer questions 22 and 23.

Do not write in this space



22. How much did Sunny save from Monday to Friday?

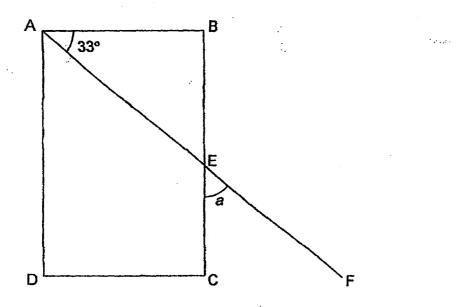
Ans: \$ _____

23. Sunny wants to buy a bicycle that costs \$280. How much more money does he need to save?

Ans: \$ _____

24. The following figure is not drawn to scale. ABCD is a rectangle and AEF is a straight line. Find ∠a.

Do not write in this space



Ans: _____

25. A container can hold 709 ml of water. What is the total capacity of 10 such containers? Give your answer in litres.

ns: _____litres

Questions 26 to 30 carry 2 marks each. Show your working clearly in the space provided for each question and write your answers in the spaces provided. For each questions which require units, give your answers in the units stated. [10 marks]

•		÷.
26.	Class 5N has 20 pupils and scored an average of 75 marks for a Math test. Class 5M has 30 pupils and scored the same total as class 5N for the same Math test. What is the average score of the pupils in class 5M?	Do not write in this space
	Ans:	
27.	A fruit stall sells oranges in packets of 5. Each packet is sold at \$3.20. Sunny has \$10. What is the maximum number of oranges that Sunny can buy?	
	Ans:	
28.	A sofa set costs \$490 after a discount of 30%. What is the original price of the sofa set?	
	Ans: \$	

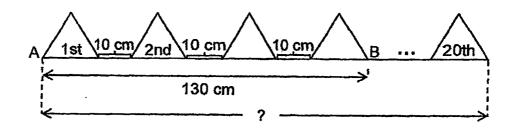
29. An empty tank measures 50 cm by 20 cm by 30 cm. Some water is poured into it such that the water level reaches 28 cm. How much more water is needed to fill the tank completely?

30 cm

20 cm

Ans: ______ cm³

In the diagram below, 20 equilateral triangles are pasted along the length of a wall. The space between one triangle to the next triangle is 10 cm. Point A to point B measures 130 cm. Find the length of the wall as indicated in the diagram below.



Ans:	_ cm	- []	

END OF PAPER



NAN HUA PRIMARY SCHOOL SEMESTRAL ASSESSMENT 2 - 2014 **PRIMARY 5**

MATHEMATICS

Paper 2

То	Total Time for Paper 2: 1 hour 40 minutes				
5	Short Answer Questions	(10 marks)			
13	Structured / Long Answer Questions	(50 marks)			

- 1. Write your name and index number in the space provided.
- Do not turn over the page until you are told to do so.
 Follow all instructions carefully

INSTRUCTION TO CANDIDATES

- 4. Answer all questions and show your workings clearly.
- 5. You are allowed to use a calculator.

Marks Obtained

Total	/ 60		
	1		
Name :		()
Class : P 5			
Date: 29 October 2014	Parent's Signature :		

Paper 2 (60 marks)

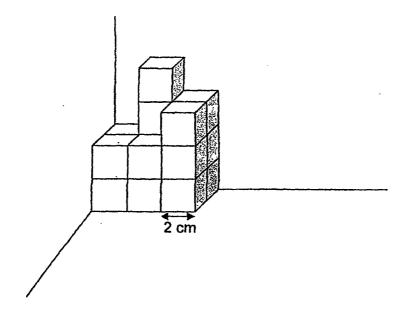
Questions 1 to 5 carry 2 marks each. Show your workings clearly in the space below it and write your answer in the space provided. For questions which require units, give your answers in the units stated. [10 marks]

1.	The ratio of the number of apples to the number of oranges to the
	number of pears is 8:6:3. If there are 138 more oranges than pears,
	how many apples are there?

Do not write in this space

Ans:_____

2. The solid figure below is made up of identical cubes. What is the volume of the solid figure?

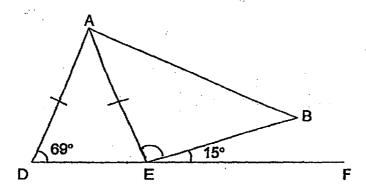


Ans:_____ cm³

3.	The usual price of a television set was \$3100. At the Great Singapore Sale, it was sold at a discount of 20%. What was the discounted price of the television set?	Do not write in this space
twi.u.	<i>₩</i>	
	★	
	Ans:\$	
	Αιιο . Ψ	
4.	A fish tank has 10 litres of water. Jack turns on a tap to fill the tank with more water. Every 1 minute, 13 litres of water flow from the tap into the tank. What will be the volume of water in the tank after 15 minutes?	
	•	
	Ans:litres	
	3	1

5. In the figure below, not drawn to scale, DEF is a straight line. AD = AE, Find ∠ AEB.

Do not write in this space



Ans ·

For each question from 6 to 18, show your workings clearly in the space below each question and write your answer and the appropriate units in the spaces provided. The number of marks available is shown in brackets [] at the end of each question or part-question.			
6.	Yanni and Zeus had \$66.75 altogether. After Yanni spent half of his money and Zeus spent \$20.25, they had an equal amount of money left. How much money did Zeus have at first?	Do not write in this space	
	Ans:[3]		
7.	Sage had $\frac{3}{5}$ as many jellybeans as Rosemary. After Rosemary		
	gave Sage $\frac{3}{5}$ of her jellybeans, Sage had 160 more jellybeans		
	than Rosemary. How many jellybeans did they have altogether?		
	• ·		
		•	

[3]

٠.			•		•	
			•	·	•	
				•		
						•
	8.	Anna, Belle and Dawn had a stamps and Belle bought 13 mo some stamps and she had 3 originally had. In the end, all of the How many stamps did Anna hav	ore stamp I times tl hem had a	s. Dawn's mother gav he number of stamps an equal number of sta	e her s	Do not write in this space
		now many stamps did Anna nav	e at mot !		-	
					İ	
		• •				
	•					
			An	s:	_[3]	
	9.	The table below shows the water charges for domestic users.	er rates ti	nat Singapore Power		
		Water rates (cubic metre)		Charges		
		First 15 m ³		4.05 3		
		riist 1918		\$1.25 per m ³		
		Next 15 m ³	·	\$1.35 per m ³		
				V1.00 POLITY		·
		Above 30 m ³		\$ 2.65 per m ³		
		Mrs Lee's family used 39 m ³ of the How much did she pay for her w	water in S vater bill f	September.		
					:	
• •						
					:	
				ns:	[3]	
			,		I~I	L
			5			
						•
				•	•	
•				·.	•	• •

		·	•	·
10	the amount of money tha	When each boy received \$ t Tom had to the amount t much money did Tom have a	hat Jerry had	Do not write in this space
		· · · · · · · · · · · · · · · · · · ·		
•.	#* .	<i>)</i>		
	•			
			•	
•		Ans:	[3]	
	•			
11		marbles as Homer at first. V Wilber now has 16 more ma	Vilber then Irbles than	
	a) How many marbles dob) How many more markWilber and Homer's a	oes Wilber have now? oles should Wilber give to Ali verage number of marbles w	ce so that ill be 54?	
	•			
•				
	·			
		Ann1	503	
		Ans: a)	[2]	
		b)	[2]	
		6		1
				•

12. In a stadium, $\frac{5}{11}$ of the chairs are green. $\frac{7}{12}$ of the remaining chairs are blue and the rest are red.

Do not write in this space

- a) If there are 125 red chairs, how many blue chairs are there?
- b) How many chairs are there in the stadium altogether?

Ans: (a)	[2]	
· /h)	ro:	

13. Mrs Heng mixed 6 litres of blue paint with 9 litres of water in a large tank. Then she poured the mixture into as many identical smaller containers, each measuring 12 cm long, 7 cm wide and 5 cm high. All of the containers were filled to the brim with some mixture remaining in the large tank.

Do not write in this space

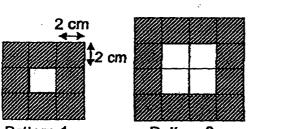
- (a) How many such containers did she fill at most?
- (b) How much of the mixture was left in the large tank?

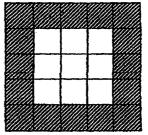
Ans: (a)	[3]	
(b)	[1]	

Do not write in this space

.

14. Look at the patterns shown below. They are made up of identical 2cm by 2cm shaded and unshaded square tiles.





Pattern 1

Pattern 2

Pattern 3

Pattern	Number of shaded tiles	Total area of shaded tiles (cm ²⁾
1	8	32
2	12	48
3	16	64
•	•	•
•	•	:
6	a(i)[1]	a(ii)[1]

- (a) Complete Pattern 6 by filling a(l) and a(ii) in the table above.
- (b) Which pattern number will have 176 cm² as the total area of its shaded tiles?

Ans: (b)_____[2]

15. Joan and Maria have some savings. $\frac{3}{5}$ of Joan's savings is equal to $\frac{2}{7}$ of Maria's savings. The difference in their savings is equal to $\frac{1}{2}$ of Betty's savings. Joan saves \$24 less than Betty.

Do not write in this space

- (a) Find the ratio of Joan's savings to Maria's savings to Betty's savings.
- (b) Find the total savings of the three girls.

ns: (a)[2]	
------------	--

(b) _____[2]

Do not write in this space

16. A farmer has 1200 animals on his farm. 20% of them are chicken.65% of the remainder are ducks and the rest are cows.

- (a) How many ducks are there on the farm?
- (b) What percentage of the farm animals are cows?

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

17. Mrs Gomez baked some cookies and put them equally into 9 jars. She then took out 20 cookies from each jar and repacked them equally into 5 packets. The total number of cookies left in the 9 jars was equal to the total number of cookies in 3 of the jars at first. Find the difference between the number of cookies in a packet and the number of cookies in a jar at the end?

Do not write in this space

٠,,,,

Ans:	151	

18. Two brothers, Andrew and Keene, shared a sum of money equally. They each spent an equal amount of money daily. The total amount spent each day was the same as the previous day.

Do not write in this space

At the end of the 5^{th} day, $\frac{7}{12}$ of the total sum of money was left. At the end of the 8^{th} day, \$120/was left.

- a) What fraction of the total sum of money was spent by Andrew each day?
- b) What was the total sum of money they shared at first?

Ans:	a)	[2]	
	b)	[3]	

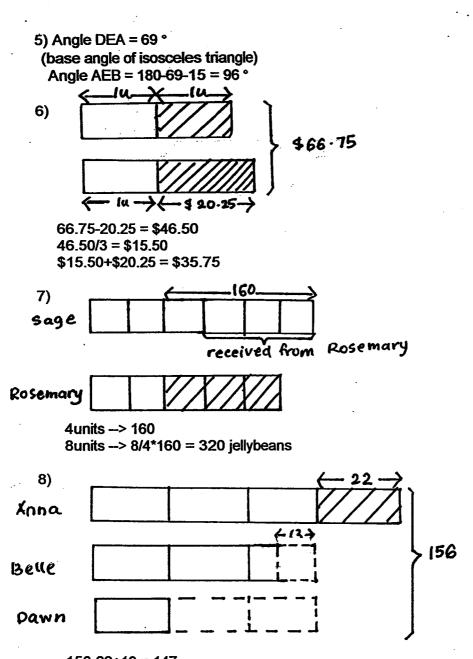
End-of-Paper

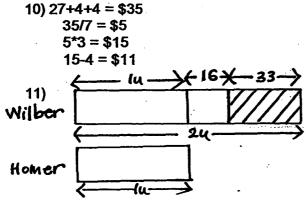
Nan Hua Primary School Semestral Assessment 2 2014 **Primary 5**

- 1)4
- 2)2
- 3)4
- 4) 1
- 5)2
- 6)3
- 7) 1
- 8)2
- 9) 3
- 10)3
- 11)4
- 12) 1
- 13) 1 14) 1
- 15) 2
- 16) 3
- 17) 1/35
- 18) 10
- 19) 7:13
- 20) 65.49
- 21) 30%
- 22) \$125
- 23) \$155
- 24) 57°
- 25) 7.09 litres
- 26) 50
- 27) 15
- 28) \$700
- 29) 2000 cubic cm
- 30) 130-30 = 100cm
 - 100/4 = 25cm
 - 20*25 = 500cm
 - 19*10 = 190cm
 - 500+190 = 690cm

Paper 2

- 1) 138/3 = 46 46*8 = 368 apples
- 2) $2*2*2 = 8 \text{ cm}^3$ $16*8 = 128 \text{ cm}^3$
- 3) 80/100*3100 = \$2480
- 4) 13*15 = 195 litres 195+10 = 205 litres





a) 33+16 = 49 49+16 = 65 marbles

b) 65+49 = 114 54*2 = 108 114-108 = 6 marbles



a) 125/5 = 25 25*7 = 175 blue chairs

b) 25*22 = 550 chairs

13) 6+9 = 15 litres = 15 000 cm³ 12*7*5 = 420 cm³

- a) 15000/420 = 35/5/7 containers
- b) 35*420 = 14 700 cm³ 15 000-14 700 = 300 cm³

14ai) 28, aii) 112

b) 176/16 = 11 11-1 = 10

15) Joan --> 3/5 = 6/10
Maria --> 2/7 = 6/21
(Make the numerator the same)
21units-10units = 11units
Betty --> 11units*2 = 22units

a) Joan: Maria: Betty

10: 21:22

b) 10units+21units+22units = 53units 22units-10units = 12units 12units --> \$24 53units --> 53/12*24 = \$106

- 16) 65%*80% = 52% (ducks)
- a) 52/100*1200 = 624 ducks
- b) 100%-20%-52% = 28% (cows)
- 17) 9*20 = 180 (number of cookies removed) 180/5 = 36 6units -> 180 1unit -> 1/6*180 = 30 30-20 = 10 36-10 = 26 cookies
- 18) (5/12)/5 = 1/12
- a) (1/12)/2 = 1/24
- b) Total spending in 3 days -> 3*1/12 = 1/4 7/12-1/4 = 1/3 1unit -> \$120 3units -> 3*\$120 = \$360