SA

#### NAN HUA PRIMARY SCHOOL MID-YEAR EXAMINATION – 2005 MATHEMATICS PRIMARY FOUR

Name	» <u> </u>			(	)	. Marks:	1	.00
Class	: Prima	агу 4	_					
Date:	10 Ma	ry 2005						
Durat	ion : 11	h 45min				Perent'	s Signature	
Quest Of th	ti <b>on</b> s 1 e 4 opt	ions givei	ry 2 marks e	correct. Ch	oose the	correct answer		) and
i.	Whi	ch of the f	ollowing is th	e <u>largest</u> in	value?			
	(2) F (3) F	ive thousa ifty thousa	isand and fifte nd five hundr and. isand six hund	ed <b>and</b> forty			(	)
2.	Whic	h of the fo	ollowing is <u>fal</u>	<u>se</u> ?				
	(2) A (3) A	rectangle	n has a pair of has two pairs es in a rhomb ombuses, and	of <b>parallel</b> i us are equal	lines.	nave two pairs of	parallel line	es.
							(	)
3.	I am	a multiple	of 7 and a fa	ctor of 56. \	What num	ber am I?		
	(1) (2)	1 8						
	(3) (4)	21 28					(	)

- 4. 6 is a **common** factor of \_\_\_\_\_ and \_\_\_\_
  - $(1) \qquad 2 \text{ and } 3$
  - (2) 8 and 12
  - (3) 6 and 14
  - (4) 12 and 36
- 5. Alan went to a computer show and saw the following offers.



Set A

3 pieces for \$9.90



<u>Set B</u> \$3.**50** each



<u>Set C</u> **\$**36 a dozen



Set D \$31 for 10 pieces

Which offer has the best value for money?

- (1) Set A
- (2) Set B
- (3) Set C
- (4) Set D
- 6. Vivien had 644 stickers. She put 9 stickers each in 52 envelopes, and gave the rest away. How many stickers did she give away?
  - (1) 61
  - (2) 176
  - (3) 468
  - (4) 635
- 7. Which of the following when rounded off to the nearest hundred is \$10 000?
  - (1) \$9 029
  - (2) \$9 509
  - (3) \$9 909
  - (4) \$9 951

2

8. Javier received \$90 during the Chinese New Year. He walked past a toy shop having a special promotion.

TOYS GALORE Super Sale !!! Hurry!				
Space Aliens Gun	\$ 12 .			
Bouncing Bouncy Ball	\$ 8			
Crash Dash Smash Cor	\$ 15			

What could he have bought if he west all his money?

- (1) 2 guns, 2 balls, 4 cars
- (2) 3 guns, 3 balls, 3 cars
- (3) 1 gun, 5 balls, 2 cars
- (4) 3 guns, 3 balls, 2 cars

9. 
$$\frac{7}{8} = \frac{?}{24} = \frac{42}{48}$$

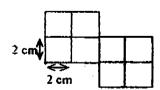
The missing number is

- (1) 14
- (2) 16
- (3) 3
- (4) 21
- 10. Which of the following will give the largest answer?
  - (1)  $1-\frac{1}{7}$
  - (2)  $1 \frac{1}{6}$
  - (3)  $1 \frac{1}{5}$
  - (4)  $1 \frac{1}{4}$

- 11. Mrs Lee bought a pizza. She ate  $\frac{1}{4}$  of it and her husband ate  $\frac{1}{3}$  of it. What fraction of the pizza was left?
  - $(1) \qquad \frac{3}{4}$
  - (2)  $\frac{2}{3}$
  - (3)  $\frac{5}{12}$
  - (4)  $\frac{7}{12}$
- 12. Which of the following shows that  $\frac{1}{5}$  of the set is shaded?
  - (1) 00000 0000 00000

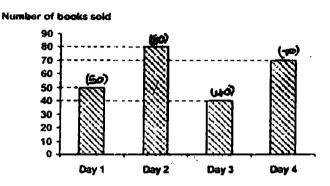
(3) • 0 0 0 0 0 0 0 0 0 0

- 13. The figure, not drawn to scale, is made up of equal squares. What is its perimeter?



- (1) 46 cm
- (2) 30 cm
- (3) 28 cm
- (4) 14 cm

14. Kenneth set up a stall at a book fair recently. The graph below shows the sales that he had made during the four days.



Express the sales on Day 2 as a fraction of the total sales for the 4 days.

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

X C F G H

D

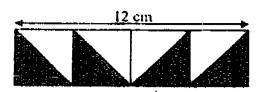
Which line is parallel to AB?

(1) CD

В

- (2) EF
- (3) GH
- (4) XY

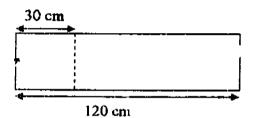
5



This figure is made up of 4 identical squares joining together. If the length of the figure is 12 cm, find the area of the shaded region.

- 9 cm² **(1)**
- 18 cm<sup>2</sup> 3 cm<sup>2</sup> **(2)**
- (3)
- $36 \text{ cm}^2$ (4)

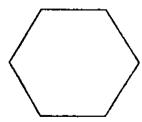
17.



This figure is made up of a rectangle and a square. Find the perimeter of the figure.

- (1) 240 cm
- (2) 300 cm
- (3) 330 cm
- (4) 340 cm

18. How many pairs of parallel lines are there in the figure?



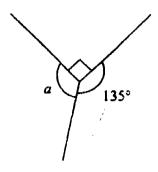
- (2) (3) (4) 0
- 3
- 6

6

).

(

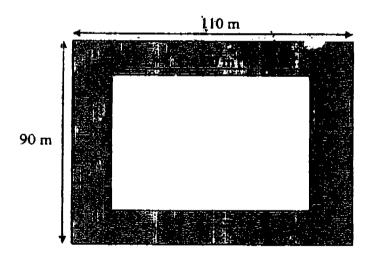
19.



Without using a protractor, calculate  $\angle a$ . (This figure is not drawn to scale).

- (1) 45°
- (2) 135°
- 145°
- (3) (4) 225°

20. Find the area of the shaded region.



- (1)
- 360 m<sup>2</sup> 3 600 m<sup>2</sup> (2) (3) (4)
- 6 300 m<sup>2</sup>
- 9 91)0 m²

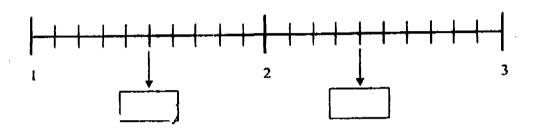
7

Ques Write	Section B: Open-ended Overtions (20 × 2 marks)  Questions 21 to 40 carry 2 marks each.  Write out the correct answers for the following questions in the boxes provided.  Show your workings clearly, and give your answers in the units provided.				
21.	The digit '9' in 90 142 stands for				
22.	What is the quotient when 7 231 is divided by 4?				
23.	Complete the number pattern.				
	, 9, 25, 49, 81, 121				
24.	Jason had some money. He spent \$19 on a soccer ball and \$7 on a p He then had \$54 left. How much did he have at first?	pair of shorts.			
		\$			
25.	Mrs Lim earns \$600 more than Mr Lim in 6 months. If Mrs Lim earn every month?	rns \$3 000 a month,			
		s			

26.  $\frac{1}{3}$  of the 99 stickers in a best had been used up by the students. How many stickers were left in the box?

	1
	stickers

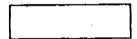
27. Fill in the missing values in the boxes. Express the fractions in the simplest form.



28. In a box of marbles,  $\frac{1}{4}$  of the marbles were red,  $\frac{3}{8}$  of the marbles are blue, and the rest were green. If the box contained 240 marbles, how many green marbles were there?

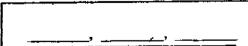


29.  $\frac{1}{2} - \frac{2}{5} = \boxed{\phantom{0}}$ 

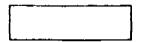


30. Arrange the fractions in descending order.

5	1	I
$\frac{1}{12}$	$-\frac{7}{6}$ ,	2



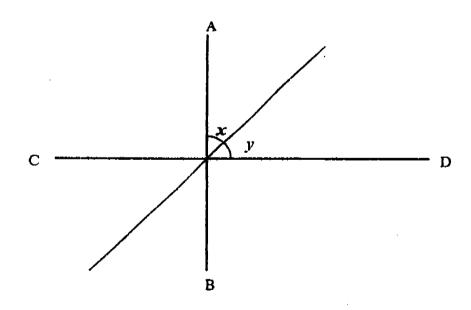
31. Convert  $\frac{27}{8}$  into a mixed number.



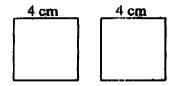
32. Using a partractor, find the value of Lx.



33. Line AB is peopendicular to Line CD. If  $\angle x = \angle y$ , find  $\angle x$ . (Do <u>not</u> use a protractor as the figure is not drawn to scale.)



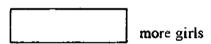
34. Benjamin used a wire to form squares like those shown below.



If he has 100 cm of wire, what is the most number of such squarer that he can form?

-,	
	 <del>-</del>
	squares
	 3 damento

35.  $\frac{5}{8}$  of the students in Primary 4A are girls, and  $\frac{2}{5}$  of the students in Primary 4B are girls. If there are 40 students in each class, how many more girls are there in Primary 4A?



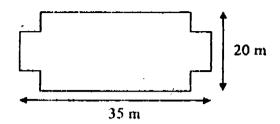
36. Below is a table showing the number of books read by 4 children this term.

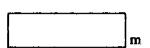
Name	Thomas Wenwen		Rachel	Leonard
Books Read	48	12	7	?12

If Leonard read  $\frac{1}{4}$  as many books as Thomas, how many books did the children read altogether?

-			-	
_		<u> </u>	<del></del>	
1				
			- 1	books
1				
_	 			

37. Find the perimeter of the following figure.



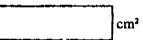


38. The floor of a house is tiled at \$30 per m<sup>2</sup>. The owner of the house decides to tile his 10 m by 20 m living room. How much would it cost?

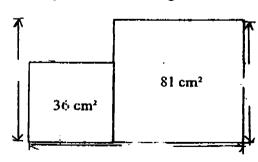


39. A square photograph is placed into a square frame. The area of the photograph is 25 cm<sup>2</sup>, and the perimeter of the frame is 28 cm. Find the area of the shaded region.





40. This figure is made up of two squares placed side by side. Find the perimeter of the figure.





### Section C: Problem Sums (5 × 4 = 20 marks)

Do the following sums carefully. All statements and workings must be clearly shown. All units must also be stated clearly.

At a camp, 240 students were divided into 8 equal groups. In each group, there were 12 girls. How many boys were there at the camp?

42. 8 teachers and 240 students went to the Science Centre for an educational tour.
The admission rates were as follow:

Туре	Price (per person)
Adults	\$6
Stude <b>nts</b>	$\frac{1}{2}$ the adult fare

- a) How much did the school spend on the tour?
- b) Another school paid \$900 for the tour. If there were 25 teachers on the trip, how many students went for the tour?

43. Rachel bought 126 pencils. She gave 12 pencils to gach of her 3 friends.

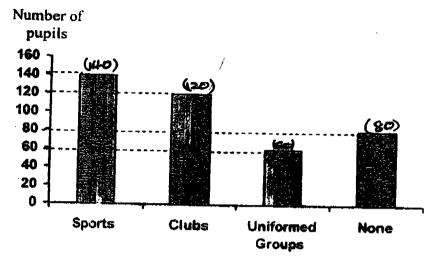
She then sold  $\frac{2}{3}$  of the remaining pencils at set each. How much money did she receive from the sale?

44. The area of a square A is equal to that of rectangle B. If the small of the square is 64 cm<sup>2</sup>, and its breadth is twice as long as the rectangle s, find the perimeter of the rectangle.

Square A

Rectangle B

45. This graph shows the CCA patieintion rate in Greenrich Primary School in January. In this school, pepile would only participate in one CCA.



aì.

Hew many pupils were toucked in CCAs?
In this month, 20 pupils inings the Uniformed Groups, while 40 pupils **b**) decided to leave their cluds. What fraction of the pupils in the school participates in CCAs now? (Give your answer in the simplest form.)



-Eim vy Paper---

Please C\*174... your work!!!

## Nan Hua Primary School

### Primary 4 Maths SA1 Exam (2005)

# ExgriSima.

#### **Answer Sheets**

Q1	Q2	Q3	Q4	Q5
3	3	4	4	3
Q6	Q7	Q8	Q9	Q10
2	4	4	4	1
Q11	Q12	Q13	Q14	Q15
3	1	3	3	3
Q16	Q17	Q18	Q19	Q20
2	2	3	2	2

- 21. 90000
- 22. 1807
- 23. 1
- 24. \$80
- 25. \$2900
- 26. 66
- 27.  $2\frac{3}{5}$
- 28. 90
- 29.  $\frac{1}{10}$
- 30.  $\frac{1}{2}$ ,  $\frac{5}{12}$ ,  $\frac{1}{6}$

- 31.  $3\frac{3}{8}$
- 32. 73°
- 33. 45°
- 34. 6
- 35. 9
- 36. 79
- 37. 110m
- **38. \$6000**
- 39. 24cm<sup>2</sup>
- 40. 48cm

- 41. 12 x 8 = 96
  There are 96 girls at the camp
  240 96 = 144
  There are 144 boys at the camp.
- 42a. \$6.00 x 8 = \$48.00 The teacher fee is \$48.00

\$6.00 ÷ 2 = \$3.00 A student's fee is \$3.00 \$3.00 x 260 = \$780.00 Total students fee are \$780.00

\$780.00 + \$48.00 = \$828.00 The school spent \$828.00 on the tour.

42b. \$6.00 x 25 = \$150.00 The teacher fee is \$150.00 \$900.00 -- \$150.00 = \$750.00 \$750.00 ÷ \$3.00 = 250

Therefore, there are 250 students went for the tour.

44. Area of square A = 8cm x 8cm = 64cm<sup>2</sup>

The length of square A is 8cm

Breadth of rectangle B = 8cm ÷ 2 = 4cm

The breadth of rectangle B is 4cm

Length of rectangle B = 64cm<sup>2</sup> ÷ 4cm = 16cm

The length of rectangle B is 16cm

Perimeter of rectangle B = (4 + 16 + 4 + 16) cm

= 40cm

Therefore, the perimeter of rectangle B is 40cm

Page 2 of 3

Nan Hua Pri - (P4) SA1 Maths 2005

45a. 
$$140 + 120 = 260$$

$$260 + 60 = 320$$

320 pupils were involved in CCAs.

45b. 
$$60 + 20 = 80$$

In this month 80 pupils are in the uniformed Group.

$$120 - 40 = 80$$

In this month 80 pupils are in their clubs.

$$320 + 80 = 400$$

There are 400 pupils in the school.

$$140 + 80 = 220$$

$$220 + 80 = 300$$

In this month 300 pupils have CCAs.

$$300 = \frac{300}{400} = \frac{3}{4}$$

 $\frac{3}{4}$  is the fraction that pupils in the school participants in CCAs now.