Nan Hua Primary School Semestral Assessment 1 - 2007 Mathematics Primary Five

Name:		()	Marks	100	
Class:	Prima	ary 5			
Date:	8 Ma	y 2007			
Duration	on: 2h	15min	Pare	ent's Signati	ure
Section	on A (2	0 marks)		•	,
For ea	ich que	to 10 carry 1 mark each. Questions 11 estion, four options are given. One of the orrect oval on the Optical Answer Sheet	nem is the	ry 2 marks (e correct an	each. swer.
1.	What i	is the value of the digit '8' in 5 489 214	?		
	(1) (2) (3) (4)	8 000 80 000 800 000 8 000 000		. ()
2.	Find t	he value of 6 - 3 x 2 + 2		. ye	
	(1) (2) (3) (4)	12 2 8 4)
3.	John l	has \$232 005. Round off this amount to s.	o the nea	erest ten tho	usand
-		\$220 000 \$230 000 \$232 000 \$240 000		()

- 4. Which of the following fraction is the smallest?
 - $(1) \frac{1}{2}.$
 - ② $\frac{1}{3}$

 - (4) $\frac{2}{7}$
- 5. $\frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{1}{3} + \frac{2}{3} = \frac{2}{3} \times \boxed{}$

The missing number in the box is _____

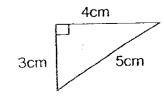
- (1) 6 (2) 5 (3) 3
- 6. The height of Mrs Samad is about ______
 - ① 160 m ② 1.6 m
 - (3) 16 cm (4) 1.6 cm

)

- In a class, $\frac{1}{3}$ of the pupils are Malays and $\frac{2}{5}$ of them are Chinese. What fraction of the class is made up of pupils from other races?
 - 6
- 15:3:27 = 5:1: 8.

What is the missing number in the box?

- 7 5 3 9
- Find the area of triangle shown below. 9.



88

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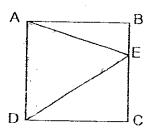
- How many 2-cm cubes can fill up a box measuring 2cm by 4cm 10. by 6cm?
 - 24
 - 12
 - 6
 - (2) (3) (4) 4

 $40 \div 5 = 85$. What is the missing operation in the box? 11.

- (2)
- (3)
- (4)

- $\frac{2}{3}$ of a number is 18. What is the number?
 - 12
 - 18
 - 27
 - (1) (2) (3) (4) 36

ABCD is square. Given that BC is 12 cm, what is the area of triangle AED? 13.



- 12 cm²
- 24 cm²
- (2) (3) 36-cm²
- 72 cm²

14.	The shortest side of a triangle is 4cm. What is the perimeter of the triangle if the ratio of the 3 sides is 2:3:5?				
		10 cm 20 cm 30 cm 40 cm	. ()	
15.	Whe had t	and Mandy shared some game cards in the ratio on the particular that the same number of cards. How many game cards at first?	they each	У	
	(1) (2) (3)	56 28 24		١	
	(4)	12	,	,	

14.

Nan Hua Primary School Semestral Assessment 1 - 2007 Mathematics - Primary Five Booklet B

Name:	Class: Pr 5	Marks :	<i>_</i> /80
Section B (30 marks)			
For each augstion from 21	1 mark each. Questions 2 3 to 35, show your working Iswer in the space provide	is cleany in the spe	
16. What is the sum of	$52\frac{5}{9}$ and $1\frac{1}{3}$?		
		Ans :	
17. Subtract $\frac{4}{7}$ from	$4\frac{1}{2}$.		
		Ans:	
18. How many <u>quart</u>	ters are there in $4\frac{1}{2}$?		
		Ans:	
19. Complete this n	umber pattern:		
17, 18, 2	0, 23,, 32		Pγ
		Ans :	<u> </u>

20. What is $\frac{3}{10} \div 3$?

21. Divide 2 340 by 15. Round off the quotient to the nearest 100.

Ans:	,	
	 	_

22. What is the volume of a cube of side 5 cm?

Ans	-		cm₃
Z:10			U##1

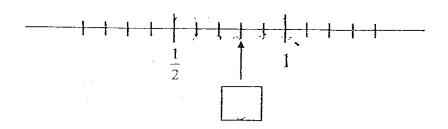
23. Kitty had $6\frac{3}{4}$ kg of flour. She packed 75 g of it into each plastic bag and sealed each bag. How many bags did he use?

92

Ans: _____bags

24.	Use the following digits to form the smallest possible 5-digit number and the digit '5' must be in the thousands place.
	1 2 5 9 0
	Ans:
25.	A and B are two different whole numbers whereby
	AB
	× AB
	1 4 4
	What is digit A ?
	Ans :
26.	What is the value of 1 + 2 + 3 + + 49 ?
	Ans:
27.	5 men can paint a house in 2 days. How many men are required to paint 2 such houses in a day?
	94
	Ans:men

28. Fill in the missing fraction. Leave your answer in its simplest form.



Ans : ____

29. What fraction of 2ℓ is 100 m ℓ ? Give your answer in its simplest form.

Ans:

30. Express $2\frac{2}{3}$ h in hours and minutes.

Ans: h min

31. Express $\frac{12}{5}$ km in kilometres and metres.



Ans: km m

32.	$\frac{2}{5}$ of the pupils in a s	school are g	rls.		
	If there are 800 girl	s, how many	rnore boy	s than girls are the	ere in
	the school?				
	÷				
	i ·	**** *********************************		Ans :	more
33.	If a pholocopier promany sheets of page	orints 400 s aper can it p	heets of print in 15 m	paper in half an t sinutes?	nour, how
				Ans :	sheets
			•		
		4			
34.	Tammy is $\frac{2}{5}$ of years. How old		r's age. T	ne sum of their a	ages is 70
	•				
,					
				Ans:	yrs old
35	$\frac{3}{4}$ of a tank is fi	lled when 2	4 litres of v	vater are poured in	nto it.
	What is the ca				
					76
-					 -
				Ans :	·l

Section C (50 marks)

For each question from 36 to 48, 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.

- 36. Susan had \$27. She spent $\frac{1}{3}$ of her money on food and
 - $\frac{2}{3}$ of the remainder on transport. How much money had she left?

Ans:		[3
AHS.		ĮO

37. I spent exactly \$1 for some 5¢ stamps and some 13¢ stamps. How many 5¢ stamps did I buý?

97

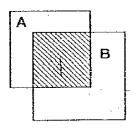
 38. The figure below, not drawn to scale, shows a rectangle divided into 4 parts. Find the area of Z. (Hint: All the dimensions are in whole numbers)

15m²	20m²
9m²	Z

Ans		[3]
HIIS	•	

The figure below consists of 2 squares A and B overlapping each other. The ratio of area of square A to area of square B is 2:3.

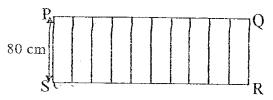
If $\frac{1}{3}$ of B is shaded, what is the ratio of thelshaded partly to the unshaded part?



98

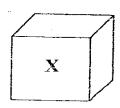
Ans:_____[3]

Rectangle PQRS has an area of 11 200 cm². If it can be divided into 10 equal rectangles as shown in the diagrams, what is the breadth of each of the 10 rectangles? The figure is not drawn to scale.



Ans:		ļ
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41.





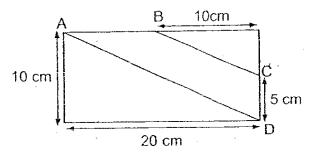
The ratio of the volume of cube X to that of cube Y is 8 : 1. What is their difference in volume?

99

Ans:____[3]

						.	bad 24	more
42.	After selling ducks than	chickens.	ппеп	Idu 100 i	chickens, ducks and	a tar d chic	kens at firs	t, how
	many ducks	did he ha	ve <u>at fir</u>	<u>s</u> !?.		•		
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43. Study the rectangle below. Express the area of ABCD as a fraction of the whole figure in the simplest form. The figure is not drawn to scale.



10

Ans: _____[4]

44.	Jack and Kate shared some cards in the ratio of 5 : 4 In a g	ame,
	Kate lost half of her cards to Jack. Jack then had 35 cards.	

- (a)
- How many cards did Kate lose to Jack?
 How many cards did they have altogether? (b)

102

Ans: (a) [2]

Ans: (b)___

- 45. A total of 20 boys and girls sold tickets for a charity show. Each ticket was sold at \$5. Each boy sold 5 tickets and each girl sold 3 tickets. If the amount collected by the boys was \$20 more than the amount collected by the girls,
 - (a) how many girls were there in the group?
 - (b) how many tickets were sold altogether?

103

Ans: (a) _____[3]

Ans: (b) _____[2]

46. $\frac{1}{4}$ of May's savings was equal to $\frac{2}{5}$ of Alice's savings. However, when Alice increased her savings by \$35 and May spent \$67, they had equal amount of money in their savings. How much money did Alice have finally?

104

Ans: _____[5]

47. The seats in the auditorium of Eastside School are labelled as follows:

Front

Row 1:	. *		1	
Row 2:		•	3 5	-
Row 3:			7 9	11
Row 4:		13	15 17	19
Row 5:	21		23 25	27 29

The rest of the seats follow the same pattern.

- (a) I am in the middle seat of row 9. What seat am I in?
- (b) Joe is in seat 65. What row is he in?
- (c) Lou is in seat 169. What row is he in?

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- Alicia had some sweets. She kept $\frac{1}{2}$ the candies plus 6 sweets for herself. She gave the remaining to Benny. Benny kept $\frac{1}{2}$ of his share plus 7 sweets and gave the remainder to Carol. Carol at $\frac{1}{3}$ of his share and had 8 sweets left.

 - (a) How many sweets did Carol get?(b) How many sweets did Alicia have at first?

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Ans: (a) ____[3]

Nan Hua Primary School

Primary 5 Maths SA1 Exam (2007)



01	O2	Q3	Q4	Q5
2	2	2	3	3
O6	Q7	Q8	Q9	Q10
2	4	4	1	3
Q11	Q12	Q13	Q14	Q15
2	3	4	2	3

16.
$$3\frac{8}{9}$$

17.
$$3\frac{13}{14}$$

20.
$$\frac{1}{10}$$

28.
$$\frac{4}{5}$$

29
$$\frac{1}{20}$$

36.
$$\frac{1}{3}$$
 of \$27 = \$9 (food)
Left = \$9 x 2 = \$18
Total left = \$18 x $\frac{1}{3}$ = \$6
She had \$6 left.

- 37. I bought 0.75¢ stamps,
- 38. Big x small = 15m²
 The only number are 5 & 3
 Check = 5m x 3m = 15m²
 If one side is 3m, then
 3m x 3m = 9m²
 If one side is 5m, then
 5m x 4m = 20m²
 3m x 4m = 12m²
 The area of z is 12m²
- 39. $\frac{1}{3}$ of square B is shade 1 unit of square B = 1 unit of square A We can tell = $\frac{1}{2}$ of square A is shaded
 - Shaded: Unshaded 1: 3

The ratio is 1:3

- 40. PQRS breadth = 80cm
 PQRS area = 11200cm²
 Area of each small rect = 1129cm² ÷ 10 = 1120cm²
 Breadth of each = 80cm x 14cm = 1120cm²
 The breadth of each of the 10 rectangle is 14cm
- 41. Vol. of cubes y = 2cm x 2cm x 2cm = 8cm³

 Difference in vol. = 7 x 8 = 56cm³

 Their difference in volume is 56c³
- 42. 2 units = 159 65 24 40 = 301 unit = 15Ducks at first = 15 + 65 + 24 + 40 = 144The farmer had 144 ducks at first.

43. Area of the rect. =
$$10 \text{cm} \times 20 \text{cm} = 200 \text{c}^2$$

Area of J = $\frac{1}{2} \times 10 \text{cm} \times 10 \text{cm} = 100 \text{cm}^2$
Area of K = $\frac{1}{2} \times 10 \text{cm} \times 5 \text{c} = 25 \text{cm}^2$
Area of ABCD = $(200 - 200 - 100) \text{cm}^2$
= 75cm^2
Fraction = $\frac{75}{200}$
= $\frac{15}{40}$
= $\frac{3}{8}$

The fraction is
$$\frac{3}{8}$$

- 44a. 1 unit = $35 \div 7 = 5$ Kate lost = $5 \times 2 = 10$ Kate lost 10 cards
- 44b. Total cards = $9 \times 5 = 45$ They had 45 cards altogether.
- 45a. There were 12 girls in the group.
- 45b. Boys = 8 x 5 = 40
 Girls = 12 x 3 = 36
 36 + 40 = 76
 76 tickets were sold altogether
- 46. 3 units = \$(35 + 67) = \$1021 unit = $\$102 \div 3 = \34 Alice finally had $\$34 \times 5 = \205 Alice had \$205 finally

47a. I am in seat 81

47b. Joe is in Row 8

47c. Lou is in Row 13

48a. 44 6 19

2 units = 8 1 unit = 4 3 u = 12

Corol got 13 sweets

48b. 12 + 7 = 19 19 + 19 + 6 = 44 44 + 44 = 88 sweets Alicia had 88 sweets at first.