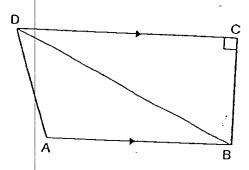
NANYANG PRIMARY SCHOOL FIRST CONTINUAL ASSESSMENT 2006 MATHEMATICS PRIMARY SIX

Na	ame:		()	Marks;	440.0
		Primary 6 (_ ,) March 2006	 	•	Parent's Signature	/100
		: 2 hours 15 minu	utes			
	klet			•		
Que: For e Make	stions each e you	s 1 to 10 carry 1 r question, four op r choice (1, 2, 3	nark each. tions are gi or 4). Sh	Question Ven. Or ade the co	ons 11 to 15 carry 2 m ne of them is the corre oval (1, 2, 3 or 4) on t	arks each. ct answer. he Ontical
Answ	ver S	heet.			, ,	- o plical
Answ	ver S	neet.				20 marks)
Answ	ver S			· .	(20 marks)
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Answ	ver S			· .	(20 marks)
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Answ 1	In 2	856 437, the dig		· .	(20 marks)
Answ	In 2 (1) (2)	856 437, the dig 5		· .	(20 marks)

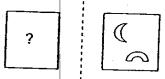
- 2 A rectangular field measures 42.63 m by 28.1 m. Which of the following is the best estimate for its area?
 - (1) 140 m²
 - (2) 800 m^2
 - (3) 1 200 m²
 - (4) 1 350 m²
- Which of the following fractions has the largest value?
 - (1) $\frac{5}{9}$
 - (2) $\frac{6}{11}$
 - (3) $\frac{3}{5}$
 - (4) $\frac{4}{7}$
- 4 Liz is 0.4 m shorter than her mother. If her mother's height is 164 cm, find their total height.
 - (1) 2.04 m
 - (2) 2.88 m
 - (3) 3.24 m
 - (4) 3.68 m

In the figure below, ABCD is a trapezium. Which line is perpendicular to AB?



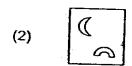
- (1) AD
- (2) CB
- (3) DB
- (4) DC
- A Game Boy set costs \$180. An X-Box costs 120% of the Game Boy set. What is the cost of the X-Box?
 - (1) \$396
 - (2) \$300
 - (3) \$216
 - (4) \$150
- 7. Simplify 5w+4-2w-2+7w+5.
 - (1) $\cdot 10w 7$
 - (2) 10w + 7
 - (3) 10w + 11
 - (4) 14w + 7

8 Which of the following figures is symmetrical to the one shown-below?



tine of symmetry



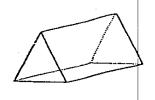




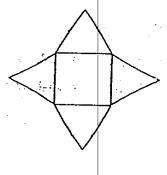


- Aini has some money. $\frac{5}{9}$ of them are 50-cent coins, $\frac{1}{8}$ of the remainder are 20-cent coins and the rest are 10-cent coins. Find the ratio of the number of 50-cent coins to the number of 20-cent coins to the number of 10-cent coins.
 - (1) 5:1:3
 - (2) 5:1:7
 - (3) 7:1:10
 - (4) 10:1:7

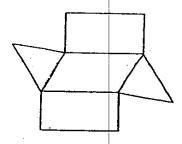
This figure below shows a solid. Which one of the following is the net of the solid?



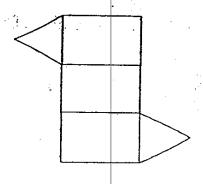




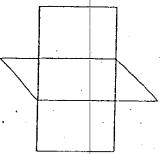
*9*28



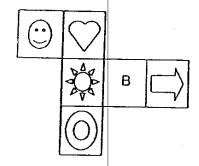
್:> (**3**∫



JA)



- How many ninths are there in the product of $\frac{7}{5}$ and $\frac{10}{3}$?
 - (1) 14
 - (2) 30
 - (3) 42
 - (4) 70
- Mr Chong finished washing and polishing his car at 1.15 p.m. He took $1\frac{1}{10}$ h to wash and $2\frac{1}{4}$ h to polish his car. At what time did he start?
 - (1) 9.40 a.m.
 - (2) 9.54 a.m.
 - (3) 10.36 a.m.
 - (4) 10.54 a.m.
- 13 If 6 chickens lay 40 eggs in 8 days, how many eggs would 12 chickens lay in 2 days?
 - (1) 20
 - (2) 40
 - (3) 80
 - (4) 120



The figure above shows the net of a cube. Which face would appear opposite B?

- (1)
- (2)
- (3)
- (4)

The table below shows the test marks scored by a group of pupils. Who has scored closest to the average marks of all the pupils?

	Zhiwei	Ryan	Nooradin	Dave
Number of				
marks	120	[*] 111	98	86
scored				

- (1) Zhiwei
- (2) Ryan
- (3) Nooradin
- (4) Dave

Name: Class: Pr 6 (P6 CA1 2006 Booklet B 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) Find the value of $72 - 8 \times 3 + (30 - 14) \div 8$. 16 What is the missing number in the box? 17 Express 25 tenths, 6 hundredths and 12 thousandths as a decimal. 18

;

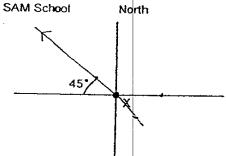
Ans:

8

The thickness of a dictionary is $\frac{3}{50}$ m. What is the thickness of 28 similar dictionaries stacked one on top of another? Leave your answer as a decimal.

	-	
Ans:		m
/ WID.		111
		-

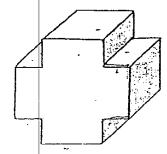
20 SAM



Junwen was walking from Point X to SAM School in the direction indicated. He made a 225° clockwise turn. Which direction would Junwen be facing now?

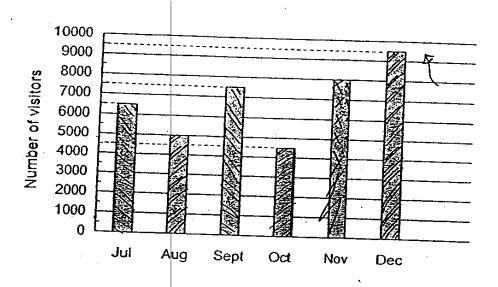
Ans:	

21 How many faces does the solid have?



Ans:	 	 	

The graph below shows the number of visitors to the zoo from July to December. Study it carefully and answer Questions 22 and 23.



How many times as many visitors were there in September as in October?

Ans:

In how many months were the number of visitors less than the average number of visitors from July to December?

Ans: ____

24 Zhiheng has twice as many toy cars as toy aeroplanes and he has twice as many toy aeroplanes as toy guns. What is the ratio of the number of toy cars to the number of toy guns to the number of toy aeroplanes? Find the value of $\frac{50k}{20-4k}$ when k=2. 25 Ans: Questions 26 to 35 carry 2 marks each. Show your working clearly in the space below each question and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (20 marks) Express $15\frac{7}{8}$ as a decimal. Give your answer correct to 2 decimal 26 places. Ans:

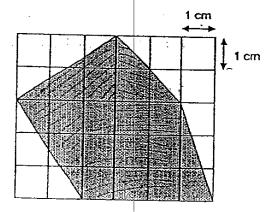
27 Mrs Lau bought 2 plates and 2 bowls. The mass of a bowl is $\frac{4}{7}$ that of a plate. If the mass of a plate was 84 g more than the mass of a bowl, find the total mass of all the plates and bowls.

 	g
 	(

Mrs Mariam bought 20 oranges for \$8. If the price of each orange was increased by 5 cents, what was the maximum number of oranges she could buy with the same amount of money?

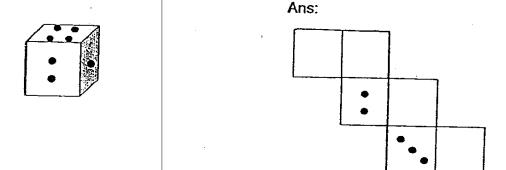
rs:	, <u>,</u>		
		 	
	1		

Find the area of the shaded figure.

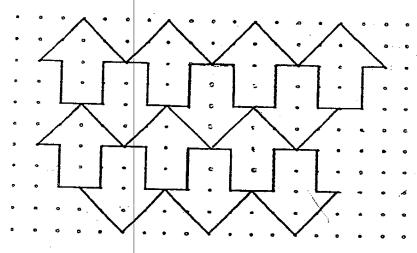


Ans:	cm²
	 CITT

The picture below shows a standard dice. The opposite faces always add up to 7. Fill in the missing faces.



In the tessellation below, shade the unit shape. Draw 1 more unit shape to extend the tessellation.



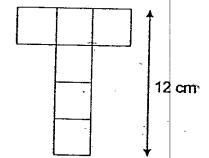
The teacher-pupil ratio in a childcare centre is 1:24. The number of boys is $\frac{2}{3}$ the number of girls. If there are 48 boys, how many teachers are there?

Ans: ____

Siti bought 5 curry buns for \$4p and 8 tuna buns for \$3p. If p = 2, find the total cost of one curry bun and one tuna bun.

Ans:	\$	
------	----	--

The figure below shows the net of a cube. Find its volume.



Ans: _____cm³

35 6 apples cost \$2y. Mrs Chow bought 21 apples and paid the shopkeeper \$10. How much change would she receive?

Ans: \$

Name:	() - Class: Pr 6 ()	
P6 CA1 2006	,	
each question and writ		•
group of beads of 10 packets. If:	me beads equally into 2 groups. She packed the first equally into 6 boxes and the second group equally into 3 boxes and 7 packets contained a total of 72 beads, ther of beads Daisy had.	
	• 	
	Ans:[3]	:
	the children ate pizzas. $\frac{4}{7}$ of these children also ate	
	there were 24 children who ate both pizzas and	in the second se
sandwiches, find	the total number of children who were at the party.	
	•	
	•	
-		
-	Ans: [3]	The state of the s

15.

38 Sticks are used to form squares as shown below.

1 square	· -	2 squares
3 squares	!	A squaree
		4 squares

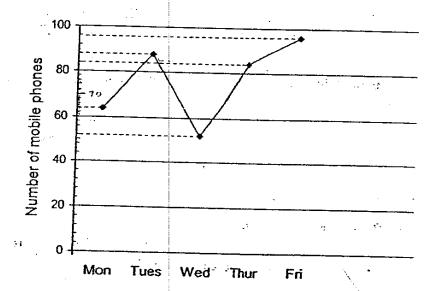
- (a) How many sticks are needed to form 6 squares?
- (b) How many squares can be formed using 160 sticks?

Ans:	(a)	_[1]
------	-----	------

(b)_____[2]

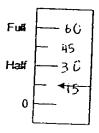
39	of her stickers by	umber of Jenny's stickers to the number of Mary's Mary bought some stickers and increased the number 50%. By what percentage must Jenny increase hered to have the same number of stickers as Mary?	
40	Alter some cookies v	Ans: [3] ber of muffins to the number of cookies was 5 : 6. vere eaten, the ratio became 2 : 1. If there were 24 nany cookies were eaten?	
		Aīns: [3] -	=

- The graph below shows the number of mobile phones sold by a shop in a particular week. Study it and use it to answer the questions that follow.
 - (a) Find the ratio of the total number of mobile phones sold on Monday and Tuesday to the total number of mobile phones sold on Wednesday and Thursday.
 - (b) Find the percentage increase in the number of mobile phones sold from Thursday to Friday.



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

The diagram below shows the reading of the fuel gauge in Mr Woo's car. The tank contains 60 litres of petrol when it is full.



- (a) If the car travels an average of 180 km on 12 litres of petrol, how far can Mr Woo's car travel with the remaining petrol?
- (b) If one litre of petrol cost \$1.58, how much will a $\frac{3}{4}$ tank of petrol cost?

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

3 Muthu bought some pe	ens for \$45. If he was given a discount of a	20%
on his purchase, he we	ould be able to buy 3 more pens with the sa	ame
amount of money. Fi	nd the usual price of 1 pen.	•
		-
,		_
	Ans:	[4]
With the same amount	money to buy 10 lollipops and 8 chocolate t money, she can also buy 5 lollipops a	nd 10
With the same amount	t money, she can also buy 5 lollipops a decides to use all her money to buy	nd 10
With the same amount chocolate bars. If sh	t money, she can also buy 5 lollipops a decides to use all her money to buy	nd 10
With the same amount chocolate bars. If sh	t money, she can also buy 5 lollipops a decides to use all her money to buy	nd 10
With the same amount chocolate bars. If sh	t money, she can also buy 5 lollipops a decides to use all her money to buy	nd 10
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With the same amount chocolate bars. If sh	t money, she can also buy 5 lollipops a decides to use all her money to buy	nd 10
With the same amount chocolate bars. If sh	t money, she can also buy 5 lollipops a decides to use all her money to buy	nd 10

Sharifah paid \$50 for some mangoes and watermelons. She received \$12.40 as change. The cost of a mango was 0.6 that of a watermelon. A mango cost \$2.40. If all the mangoes cost \$5.60 more than all the watermelons, how many mangoes did Sharifah buy?

Ans: ______[5]

A rectangular tank with length 40 cm and breadth 30 cm was $\frac{2}{5}$ filled with water. When 10.2 ℓ of water was poured in, the water level rose to 22.9 cm. Find the height of the tank. (1 ℓ = 1000 cm³)

Ans: ______[5]

In a fish tank, the ratio of the number of goldfish to the total number of angelfish and swordtails was 2:5. The ratio of the number of angelfish to the number of swordfish was 9:1. There were 15 more angelfish than goldfish. After some goldfish were added, 40% of the fishes were goldfish. How many goldfish were added?

Ans:	[5]	
	 F . 1	

The advertisement below shows the charges for a buffet lunch.

Buffet Lunch Special

Charges

Adult: \$28 nett per person
Children (12 yrs old and below):
\$15 nett per person

A group of 23 adults and children had buffet lunch together. The bill came up to be \$436. How many adults were in the group?

Ans: _		[5]
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END OF PAPER

Setters: Mrs Amy Chow Mrs Linda Tan

Nanyang Primary School

Primary 6 Maths CA1 Exams (2006)

Answer Sheets

Q1	Q2	Q3	Q4	Q5
1	3	3	2	2
Q6	Q 7	Q8	Q9	Q10
3	2	4	4	3
Q11	Q12	Q13	Q14	Q15
3	2	1	1	3

16. 50

21. 14 faces

17. 12

22. $1\frac{2}{3}$

18. 2.572

22. ¹₃

19. 1.68m

23. 3 months 24 4:1:2

20. South

25. $8\frac{1}{3}$

26.	15.88	27.	616g
28.	17 oranges	29.	18.5cm ²
30.		31.	
32.	5 teachers	33.	\$2.35
34.	64cm ³	35.	\$(10-7y)

36.	$72 \div 36 = 2 \text{ beads}$	37.	24 ÷ 8 = 3
1	$2 \times 60 = 120 \text{ beads}$	37.	$\begin{vmatrix} 24 - 6 - 3 \\ 3 \times 7 = 21 \end{vmatrix}$
		ļ	
	Daisy had 120 beads. (Ans)		$21 \times 5 = 105$
ſ	Paris Made 120 beaus. (Alls)		TC1
			There were 105 children at the party.
İ			
38a.	1 square = 1 + 3 = 4 sticks	-	
30a.		39.	$8\mathbf{u} \div 2 = 4\mathbf{u}$
]	2 squares = 1 + 3 + 3 = 7 sticks	1	$8\mathbf{u} + 4\mathbf{u} = 12\mathbf{u}$
, '	6 squares = $1 + 3 + 3 + 3 + 3 + 3 + 3 = 19$ stick	1	$12\mathbf{u} - 3\mathbf{u} = 9\mathbf{u}$
1	19 sticks are needed to form 6 squares.		$(9 \div 3) \times 100\% = 300\% \text{ (Ans)}$
201	160 1 150		
38D.	160 - 1 = 159		Jenny must increased her stickers by
	150		300%
	$159 \div 3 = 53 \text{ squares}$	1	
	53 squares can be formed.		
!	Checked		
a.	19 -1 = 18		
	$18 \div 6 = 3$		
_			
b.	$53 = 1 \times 3 \times 53 = 159$		
40.	$24 \div 12 = 2$	41a.	64 + 88 = 152 (Mon + Tues)
	$2 \times 7 = 14$		52 + 84 = 136 (Wed + Thurs)
İ	14 cookies were eatern		
}			Mon + Tues : Wed + Thurs
İ			152 : 136
			19 : 17
1			The ration is <u>19</u> : <u>17</u> (Ans)
·].			(AAAA)
		41b.	96 - 84 = 12
		Ì	$12 \div 84 \times 100\% = 14\frac{2}{7}\%$
1	·		_ ′
. [The increase was $14\frac{2}{7}\%$ (Ans)
			7

Ī			
42a.	$60 \div 4 = 15l$ $12l = 180km$ $15l = \frac{5}{4} \times 180km = 225km$ Mr Woo car can travel 225km on the remaining petrol $15l \times \$1.58 = \71.10 $\frac{3}{4} \text{ tank of petrol will cost } \71.10 (Ans)	43.	$\frac{20}{100} \times \$45 = \9.00 $\$9.00 = 3 \text{ pen}$ $\$9.00 \div 3 = \3.00 $\frac{100}{80} \times \$3 = \3.75 The usual price of a pen is $\$3.75$ (Ans)
44.	5u of L = 2u of Chocolate bars 10u of L = 4u of Chocolate bars 20u of L = 8u of Chocolate bars 20u + 10u = 30 loppipops	45.	\$(50.00 - 12.40) = \$37.60 (Paid) Mangoes = \$2.40 Waterlon = \$2.40 ÷ 3 x 5 = \$4.00 9 + 4 = 13 fruits She bough 13 fruits. (Ans)
46.	10.2 ℓ = 10200cm ³ Height = 10200 ÷ (40 x 30) = 8.5cm = 22.9 - 8.5 = 14.4cm $\frac{2}{5}$ = 14.4 $\frac{5}{5}$ = 360 ÷ 10 = 36cm The height of the tank is 36cm (Ans)	47.	G: A: S 9:1 2:5:5 4:9:1 9u-4u=5u 5u=15 4u=12 (gold) 9u=27 (angel) 1u=3 (sword) 12 x 2 = 24 2 mall u=1 fish 16 small units = 8 fishes 8 goldfishes were added (Ans)
	\$(28.00 - 15) = \$13.00 $\$15 \times 23 = \345.00 \$(436 - 345) = \$91.00 $= \$91.00 \div 13 = 7$ There were 7 adults in the group. (Ans)		