

NANYANG PRIMARY SCHOOL

FIRST CONTINUAL EXAMINATION 2010

PRIMARY 6

MATHEMATICS

PAPER 1

DURATION: 50 MINUTES

Booklet A	/ 20	Paper 1 Total:
Booklet B	20	40
Name:		
Class: Primary 6 (()	
Date: 5 March 2010	010	
Parent's Signature:	r.	
Parent's Signatur	e:	

DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

FOLLOW ALL INSTRUCTIONS CAREFULLY.

ANSWER ALL QUESTIONS

YOU ARE NOT ALLOWED TO USE A CALCULATOR.

PAPER 1 (BOOKLET A)

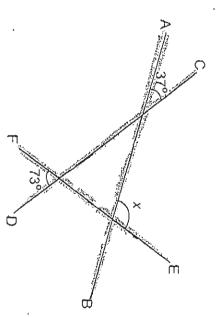
Answer Sheet. Make your choice (1, 2, 3 or 4). Shade the oval (1, 2, 3 or 4) on the Optical For each question, four options are given. Questions 1 to 10 carry 1 mark each. Questions 11 to 15 carry 2 marks each. One of them is the correct answer.

(20 marks)

1 Simplify the following algebraic expression.

$$3a + 9 + 6 \times 2 - 8a$$

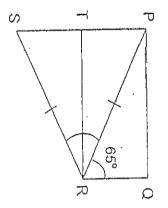
- (1) 30 + 5a
- (2) 21 + 5a
- (3) 30-5a
- (4) 21 5a
- N straight lines, Find Zx. The figure below is not drawn to scale. Given that AB, CD and EF are



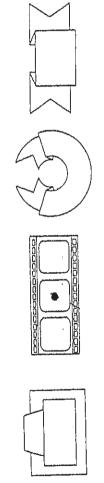
- (1) 70°
- (2) 107°
- (3) 110°
- (4) 143°

the figure below is not drawn to scale. Given that PQRT is a rectangle and PRS is an isosceles triangle. Find ∠PRS.

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- (1) 25°
- (2) 35°
- (3) 50°
- (4) 65°
- How many of the figure(s) shown below has/have only 1 line of symmetry?

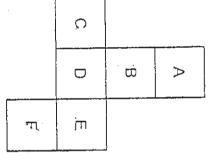


- (1) 1
- (2) 2
- (3) 3

Sec. 13.

(4) 4

5 The figure below shows the net of a cube.



folded into a cube? Which one of the above letters is opposite the letter B when the net is

- (1) A
- (2) C
- (3) E
- (4) F

6 Which one of the following is not equivalent to

- (1) $\frac{27}{8}$
- (2) $28 \div 8$
- (3) $3\frac{1}{2}$
- (4) $\frac{7}{2}$

Simplify:

- (1) $\frac{5}{9}$
- (2) 2
- (3) $3\frac{2}{3}$
- (4) 5

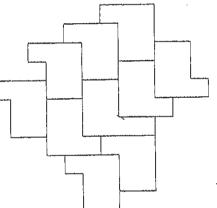
friends equally. What fraction of the pie did each of her friends receive? Norah ate ~11of a pie and gave $\frac{2}{3}$ of the remainder to each of her 5

 ∞

- (1) $\frac{6}{35}$
- (2) $\frac{4}{35}$
- (3) $\frac{2}{21}$
- (4) $\frac{2}{15}$

- 9 money had she left? Mrs Lim had \$60. She bought 50 tarts at \$0.40 each. How much
- (1) \$20
- (2) \$24
- (3) \$40
- (4) \$58
- 10 In a class of 40 pupils, 28 of the pupils go to school by bus and the remaining pupils go to school by car. If 10 boys go to school by bus and 6 boys go by car, what is the ratio of the number of girls who go to school by bus to the number of girls who go to school by car?
- (1) 2:3
- (2) 3:1
- (3) 5:3
- (4) 7:3

11 Look at the following tessellation.



wrongly? How many of the unit shape(s) drawn has/have been tessellated

- (1)
- (2) 2
- (3) 3
- (4) 4
- 12 as much as Gabriel. How much did Tom have? Peter had \$70. Gabriel had \$150 more than Peter. Tom had $1\frac{2}{5}$ times
- (1) \$98
- (2) \$210
- (3) \$308
- (4) \$518

ω
May has less than 350 stamps. These stamps can be put in equal

- (1) 150
- (2) 300
- (3) 330
- (4) 340

4 Find the total mass of 10 papayas and 10 mangoes. 100 papayas have a mass of 72 kg. A mango has a mass of 450 g.

- (1) 0.117 kg
- (2) 5.22 kg
- (3) 11.7 kg
- (4) 11700 kg

15 Given that 12:28 = ٠, : 21, what is the number in the box?-

- (1) 5
- (2) 7
- (3) 3
- (4) 9

Name: Class: Pr 6 (

P6 CA1 2010

PAPER 1 (BOOKLET B)

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

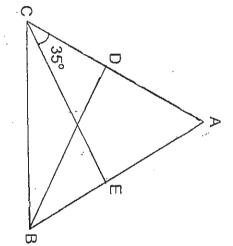
(10 marks)

46 Given that y = 7, what is the value of the following algebraic expression?

$$5y + 8 - 4y + 2$$

Ans:

17 the figure below. triangle and CF = BF. Given that $\angle ACE = 35^{\circ}$, find $\angle DFE$ as shown in In the figure below which is not drawn to scale, ABC is an equilateral



2 Arrange these fractions in descending order.

19 Mrs Lim had $\frac{3}{5}$ simplest term.) was the amount of oil left? kg of oil. She used (Leave your answer as a fraction in its ထ၊ယ of it to fry chicken wings. What

Ans:

Ans: G

20 There are 48 pages in a book. If Amy reads $\frac{2}{3}$ per day, how many days will she take to complete reading the book? of a page of the book

21 Find the value of $16 + 40 + 4 \times 2 - 8$.

Ans:	

22 What is the missing number in the box?

Ans:

23 Pens are only sold in packets of 6. Each packet is has \$31.80. How many pens can she buy at most? Each packet is sold at \$3. Alice

24 syrup used to make the lemonade? was water. What was the ratio of the amount of water to the amount of of a jug of lemonade was syrup, $\frac{1}{4}$ of it was ice and the remaining

Ans:

25 carriage was in the ratio 5:2. There were thrice as many women as men. There were 16 children in the train carriage. How many men were there in the train carriage? The number of adults to the number of children seated in a train

provided. For questions which require units, give your answers in the units 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

(10 marks)

26 Find the values of Y and Z.

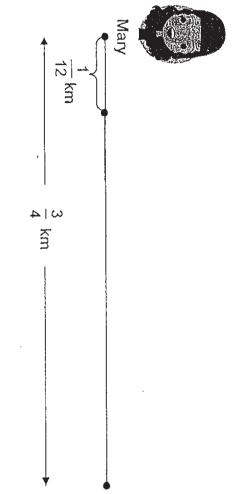
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6	7	8		<u></u>
6	8	8	ယ	λ,
2	0	2	Z	ග

Z =	Ans: Y =
} 	

27 he buy? cents and each ruler cost (x - 50) cents. Russell paid \$6.60 for 6 pencils and some rulers. If x = 90, how many rulers did Each pencil cost x

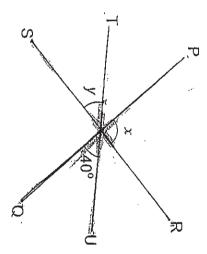
Ams:	

28 road which measured $\frac{3}{4}$ km. A group of children were standing in a line at many children were there altogether? If Mary was the first person in line, how 12 km apart on a straight



Ans:

29 straight lines. In the figure below which is not drawn to scale, PQ, RS and TU are N | → of $\angle x$ is of *Ly*. Find ∠y.



30 Su Jun, Emery and Mark shared 116 coins in a certain ratio. When each of them received 4 more coins, the ratio of the number of Su Jun's coins to Emery's coins to Mark's coins was 5:7:4. How many coins did Su Jun have now?



NANYANG PRIMARY SCHOOL

FIRST CONTINUAL EXAMINATION 2010

PRIMARY 6

MATHEMATICS

PAPER 2

DURATION: 1 HOUR 40 MINUTES

(Paper 2 Total	1 / 60
	GRAND TOTAL	L /100
Name:		
Class: F	Class: Primary 6 (
Date: 5	Date: 5 March 2010	

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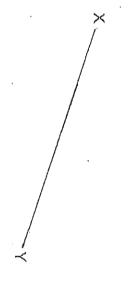
YOU ARE ALLOWED TO USE A CALCULATOR.

PAPER 2

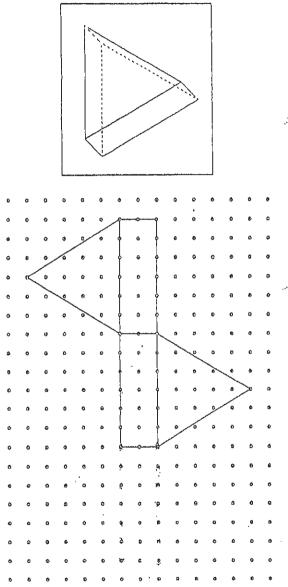
For questions which require units, give your answers in the units stated. provided for each question and write your answers in the spaces provided. Questions 1 to 5 carry 2 marks each. Show your working clearly in the space

(10 marks)

کــ XYZ such that \angle XYZ is 65° and XY = YZ. In the figure below, XY is a straight line. Draw an isosceles triangle



N In the diagram shown on the square grid below, draw in the missing part to complete the net of the solid shown in the box.



			ω
a fraction in its simplest form.)	how much cloth did she use to make dresses? (Leave your answer as	some of the remaining cloth to make dresses. If she had $4 - \frac{5}{9}$ m left,	Xiao Ling had 40 m of cloth. She used $\frac{1}{7}$ of it to make shirts and
	(Leave your answer as	If she had $4\frac{5}{9}$ m left,	of it to make shirts and

Ans: _____ m

4 children were there? received 350 ml of milk and there was 0.56 l of milk left over, how many 15.26 l of milk was shared equally among some children. If each child

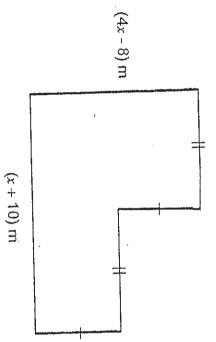
Ans:

Oi of lollipops to the number of packets of jellybeans? After giving away 30 lollipops and 18 packets of jellybeans, Mariam had 14 of each type of sweets left. What was the initial ratio of the number

question or part-question. The number of marks available is shown in brackets [each question and write your answers in the spaces provided. For questions 6 to 18, show your working clearly in the space provided for] at the end of each

(50 marks)

ග The figure below shows the outline of a garden.



- (a) Express the perimeter of the garden in terms of x.
- **(b)** If x = 5, what would be the cost of putting fences around the garden when the cost of putting a fence is \$14 per metre?

~-1 How much money did Eddie have at first? had spent and had \$80 more than the amount that Henry was left with. amount of money left. of his money and Kimmy spent \$40, Henry and Kimmy had the same Henry, Kimmy and Eddie had \$1095 altogether. After Henry spent $\frac{2}{5}$ Eddie spent twice the amount of what Henry

Ans:	
[3]	

- 00 Kelvin and Christine had a total of 540 story books. Christine 23 books, Kelvin had 5 times as many books as Christine After Kelvin gave
- (a) How many books did Christine have at first?
- (b) How many more books did Kelvin have than Christine at first?

many pages were there in the book? increased and continued reading the book for the whole week till Saturday. Sam started reading a book on Sunday. He read 9 pages on Sunday continued the reading pattern until he finished reading the book. the number of pages read by 3 pages everyday. How H

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4	• •	Monday	Sunday	Day
		9+3	.9	No. of Pages Read

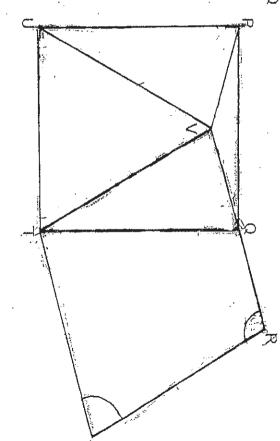
	Ans
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> #27	[3]

9 A florist had a total of 272 roses and Illies in the ratio .12:5. roses to the number of lilies was then 5 · 2. selling away twice as many roses as tilies, the ratio of the number of How many roses did she

 α In the figure below, PQTU is a square, TUV is an equilateral triangle and RSTV is a rhombus.

Find

(a) (b) ZQRS ZPVQ



- Ans: (a): .
- **(b)** [2]

- 12 *friends! James spent a of his salany on food and saved 2 of the remainder. Then he used the restrothis salary to buy Christmas presents for his
- (a) If each present cost of his salary, how many presents edid he buy?
- (b) If each present cost \$58, how much did James save?

		Ans:
(b)		(a)
72	•	2]

د دن five-cent coins is twice the total number of fifty-cent and ten-cent coins. What was the total amount of all these coins? There are 13 more ten-cent coins than fifty-cent coins. There is a total of 195 fifty-cent, ten-cent and five-cent coins in a tin. The number of

Ans: [4]

4 Bobby eams \$0.40 for every magazine he selfs. Bobby sell to earn \$881? to him for every 80 magazines he sells. How many magazines must A bonus of \$3 is given

Ans:

<u>4</u>

- Ġ total length of 3 ropes and 12 ribbons. The total length of 12 ropes and 3 ribbons is 0.252 m shorter than the
- (a) What is the difference in length between one piece of rope and one piece of ribbon? (Leave your answer in.cm.)
- **(b)** If the length of each piece of rope is 0.53 m, what is the length of each piece of ribbon? (Leave your answer in cm.)

	Ans:
(b)	(a)
7	2

and $\frac{1}{5}$ of the goldfish. He found that he had sold 28 more guppies than goldfish. The guppies were sold at \$0.55/and the goldfish at \$0.85%. What was the total amount he received? Mr. Lee had 36 more guppies than goldfish. He sold $\frac{1}{4}$ of the guppies

9

Ans: [5]

Julian had 300 more cards than Faizal. Julian gave $\frac{3}{5}$ of his cards to many cards did Julian have at first? to Julian. In the end, Faizal had 300 more cards than Julian. How Faizal. Faizal then gave $\frac{1}{4}$ of the total number of what he had then

Ans: (a) (5)

18 of Tank Y is 5:3. How many more litres of water are needed to fill of water left in Tank X. both tanks to their brim? Tank Y until the water in Tank Y reaches the brim, there will be 26 litres be 8 litres of water left in Tank Y. If water from Tank X is poured into poured into Tank X until the water in Tank X reaches the brim, there will Tanks X and Y are each filled with some water. If water from Tank Y is The ratio of the volume of Tank X to the volume

E O	2		
ζ	5	2	

END OF PAPER

Setters: Mrs Cassandra Ng Mrs Rachel Tan





EXAM PAPER 2010

SCHOOL: NANYANG PRIMARY

SUBJECT: PRIMARY 6 MATHEMATICS

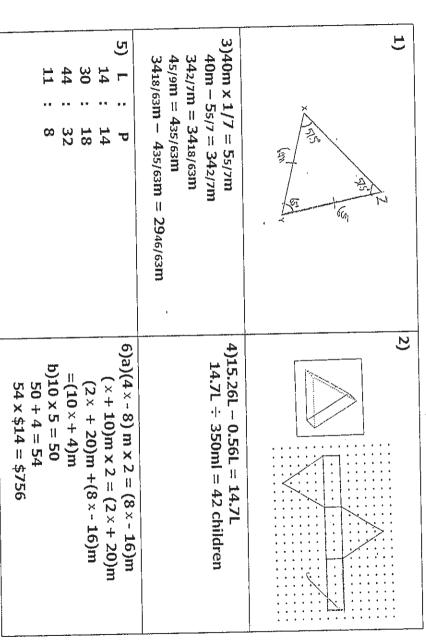
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4	Q15

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16)29	
17)130°	
18)7/8, 5/6, 3/4	
19)3/8kg	
20)72 days	

Paper 2



5/8 x 2/5 = $\frac{1}{4}$ 5/8 - 2/8 = 3/8 3/8÷1/16 = 3/8 x 16/1 = 6 b)6 x \$58 = \$348 \$348÷3 = \$116 \$116 x 2 = \$232 14)80 x \$0.40 = \$32 \$32 + \$3 = \$35 (80mag + bonus) \$881÷\$35 = 25R15 25 x 80 + 15 = 2015 magazines 23.40 16)28 - 12 = 16 16 x 20 = 320 320 + 60 = 380 320 + 60 = 380 380 + 36 = 416 gf: 380 x 0.2 = 76 gp: 416 x 0.25 = 104 104 x \$0.85 = \$64.60 \$64.60 + \$57.20 = \$121.80 18)191	13)195 - 13 - 26 = 156 156 ÷ 6 = 26 10c ÷ (26+13)x 0.10 = \$3.90 50c ÷ 26 x 0.50 = \$13 5c ÷ (5x26)x0.05 = \$6.50 Total Amt: \$6.50 + \$3.90 + \$13 = \$23.40 15)a)12 - 3 = 9 9 difference ÷ 0.252cm 1 difference ÷ 0.252cm b)0.53m + 0.028m = 0.558cm 17)2u + 135 + 20 - 45 = 300 2 units ÷ 300 - 135 + 165 = 330 1u ÷ 330 ÷ 2 = 165 Total \rightarrow (165 x 5) + 300 = 1125
12)a)1 - 3/8 = 5/8	11)a)105° b)105°
10)32 roses	9)(7 x 9) + (21 x 3) =126 pages
8)a)540 - (6 x 23)= 402 402÷ 6 = 67 b)(23 x 6) + (67 x 5)= 473 473 - 67 = 406	7)\$1095 - \$40 = \$1055 \$1055 - \$80 = \$975 \$975 ÷ 15 = \$65 \$65 x 7 = \$455 \$455 + \$80 = \$535