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南侨小学

NAN CHIAU PRIMARY SCHOOL MID YEAR EXAMINATION 2022

MATHEMATICS PAPER 1 PRIMARY 6 BOOKLET A

Name / Index #		.)
Class	Primary 6	
Date	17 May 2022	
Duration for Booklets A and B	1h	
	Paper 1 Booklet A	20
	Paper 1 Booklet B	25
Marks	Paper 2	55
	Total	100
Parent's Signature		

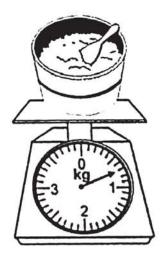
Γ	Instructions	1.	Do NOT open this booklet until you are told to do so.	
	to students	2.	Follow all instructions carefully.	
		3.	Answer all questions.	
		4.	Shade your answers in the Optical Answer Sheet provided.	
		5.	The use of calculators is NOT allowed.	

This paper consists of 6 pages altogether.

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 and shade your answer (1, 2, 3 or 4) on the Optical Answer Sheet.

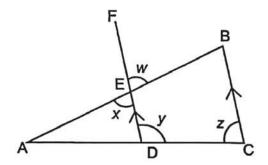
(20 marks)

- 1 Which of the following is the first common multiple of 6 and 9?
 - (1) 15
 - (2) 18
 - (3) 3
 - (4) 54
 - 2 In the number 410.582, which digit is in the hundredths place?
 - (1) 5
 - (2) 2
 - (3) 8
 - (4) 4
 - 3 The figure shows a container of rice.
 How much more rice needs to be added to make it 1 kg?



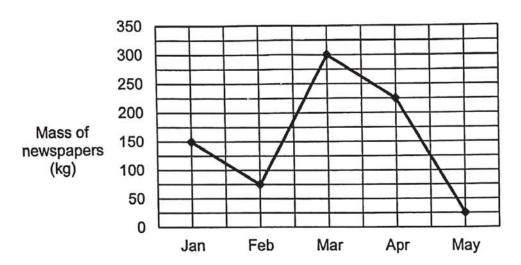
- (1) 0.3 kg
- (2) 0.7 kg
- (3) 30 g
- (4) 70 g

In the figure below, ABC is a triangle. BC is parallel to FD. Which of the following statements is true?



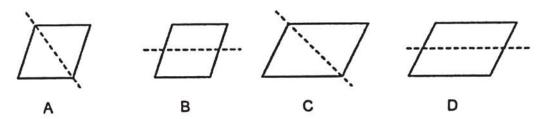
- (1) $\angle w + \angle x = 180^{\circ}$
- (2) $\angle w + \angle z = 180^{\circ}$
- (3) $\angle x + \angle y = 180^{\circ}$
- (4) $\angle y + \angle z = 180^{\circ}$
- 5 Which of these fractions is closest to $\frac{1}{2}$?
 - (1) $\frac{3}{5}$
 - (2) $\frac{4}{7}$
 - (3) $\frac{5}{9}$
 - (4) $\frac{6}{11}$

6 The graph below shows the mass of newspapers the Primary 6 classes had collected over 5 months.



In which month was the mass of newspapers collected thrice that of Feb?

- (1) Jan
- (2) Mar
- (3) Apr
- (4) May
- 7 Figures A and B are rhombuses while Figures C and D are parallelograms. Which of the following shows that the dotted line drawn is a line of symmetry of the figure?



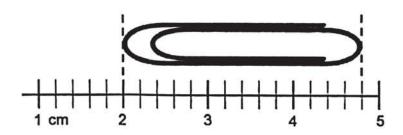
- (1) A only
- (2) A and C
- (3) B and D
- (4) A, B, C and D

8 Arrange the following decimals from the smallest to the greatest.

(smalles	st)				(greates	it)
(1)	0.45		4.5		4.05	0.54	
(2)	0.45		0.54		4.05	4.5	
(3)	0.54		0.45		4.05	4.5	
(4)	0.54	,	0.45	,	4.5	, 4.05	

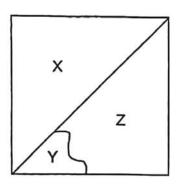
- 9 Daniel started driving at 19 45. He arrived at Jurong 1 h 20 min later. At what time did he reach Jurong?
 - (1) 6.25 a.m.
 - (2) 6.25 p.m.
 - (3) 9.05 a.m.
 - (4) 9.05 p.m.

10 What is the length of the paper clip?

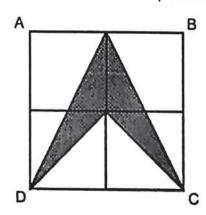


- (1) 2.0 cm
- (2) 2.4 cm
- (3) 2.8 cm
- (4) 4.8 cm

A square is divided into 3 parts, X, Y and Z. The ratio of the area of Y to the area of Z is 1:6. The area of Z is 126 cm². Find the area of X.



- (1) 21 cm²
- (2) 108 cm²
- (3) 147 cm²
- (4) 252 cm²
- Square ABCD is made up of 4 smaller identical squares. What fraction of the square ABCD is shaded?

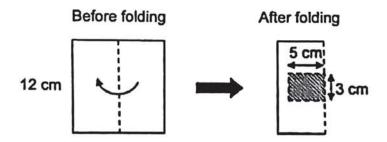


- (1) $\frac{1}{2}$
- (2) $\frac{1}{4}$
- (3) $\frac{1}{8}$
- (4) $\frac{1}{16}$

- 13 Kelly and Lucas saved \$800 altogether. $\frac{1}{4}$ of Kelly's savings was \$65 more than $\frac{1}{5}$ of Lucas's savings. How much money did Lucas save?
 - (1) \$240
 - (2) \$260
 - (3) \$300
 - (4) \$540
- The figure below shows a piece of square paper with side 12 cm.

 Natalie folded the piece of paper into half as shown below and cut out a rectangular strip that measured 5 cm by 3 cm. After that, she unfolded the remaining piece of paper.

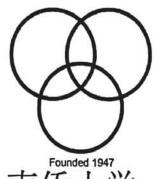
 What was the area of the remaining piece of paper?



- (1) 30 cm²
- (2) 114 cm²
- (3) 129 cm²
- (4) 144 cm²
- Yu Xuan has 3 cards printed with different whole numbers.

 When the numbers on the cards are added two at a time, the sums are 68, 88 and 110. What is the largest number printed on the card?
 - (1) 22
 - (2) 45
 - (3) 65
 - (4) 90

End of Paper 1 Booklet A



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NAN CHIAU PRIMARY SCHOOL MID YEAR EXAMINATION 2022 **MATHEMATICS PAPER 1** PRIMARY 6 **BOOKLET B**

Name / Index #		()
Class	Primary 6		
Date	17 May 2022		
Duration for Booklets A and B	1h		
Marks	Booklet B		25
Parent's Signature			

Instructions	1.	Do NOT open this booklet until you are told to do so.
to students	2.	Follow all instructions carefully.
	3.	Answer all questions.
	4.	Write your answers in this booklet.
	5.	Use a dark blue or black ballpoint pen to write your answers in the space provided for each question.
	6.	Do not use correction fluid/tape or highlighters.
	7.	The use of calculators is NOT allowed.

This paper consists of 8 pages altogether.

Questions 16 to 20 carry 1 mark each. Write your answers in the spaces provided. For Do not write questions which require units, give your answers in the units stated. (5 marks)

in this space

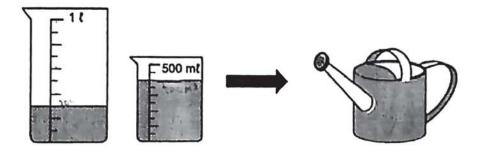
16 Mr Thio sold his car for \$173 489. Round the amount to the nearest thousand dollars.

Ans: \$

The temperature of a metal rod was 32°C. It was then lowered into a glass of hot 17 water and the temperature of the metal rod rose to 40°C. Find the percentage increase in the temperature of the metal rod.

Ans:

18 All the water in the two beakers below was poured into an empty watering can. What was the total volume of water in the watering can?



Ans: mt

Ans: _____

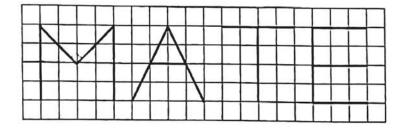
Find the value of $\frac{3}{7} \div \frac{2}{9}$. Give your answer as a mixed number in its simplest form.

Ans: _____

Questions 21 to 30 carry 2 marks each. Show your working clearly and write your Do not write answers in the spaces provided. For questions which require units, give your answers in the units stated. (20 marks)

in this space

21 Four letters M, A, T, E are shown on a square grid.



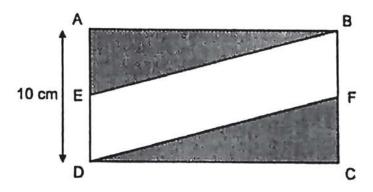
(a) Name the letter(s) that has / have perpendicular lines.

Ans: ((a)	
	,	

(b) Name the letter(s) that has I have parallel lines.

Ans:	(b)	
------	-----	--

ABCD is a rectangle. E and F are the midpoints of AD and BC respectively. 22 AD is 10 cm. The area of the unshaded part is 90 cm2. Find the length of AB.



Ans:	cm

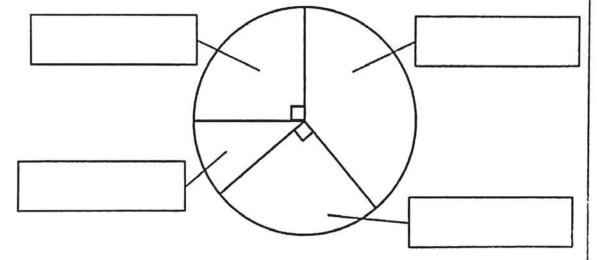
23	Janelle bought 4 kg of chocolates. Sequally to some friends. Each friends How many friends were there?	~	
		Ans:	
24	The table below shows the prices for	or printing photographs in a st	nop.
	Number of photographs	Price	
	First 10 pieces	\$3.40 per piece	
	Every additional piece	\$2 per piece	
	Leon paid \$78 to print his photographs did	ohs. id he print?	
		Ans:	

25	Sarah had 84 books and Ritesh had 52 books. After Sarah gave some of her
	books to Ritesh, the ratio of the number of books Sarah had to the number of
	books Ritesh had was 3:5. How many books did Ritesh have in the end?

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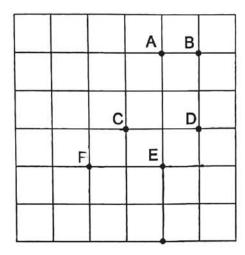
Ans:			

- A bakery sold four types of cupcakes. The most number of cupcakes sold were chocolate cupcakes. The least number of cupcakes sold were vanilla cupcakes. The same number of hazelnut and peanut cupcakes were sold.
 - (a) The pie chart represents the number of each type of cupcakes sold. Label the parts with the correct types of cupcakes (chocolate, hazelnut, peanut, vanilla).



(b) 180 chocolate and vanilla cupcakes were sold. What was the total number of cupcakes sold?

Ans: (b) _____





(a) Point C is north-east of Point _____.

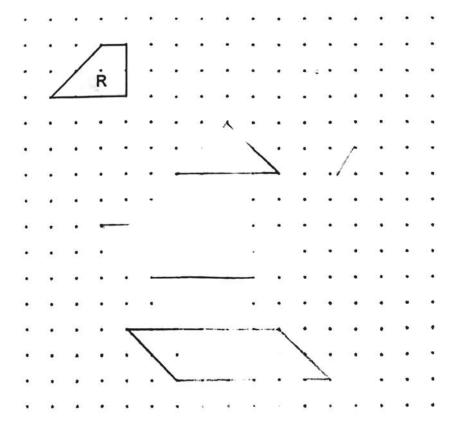
Ans: (a) Point

(b) Nadia stood at one of the points facing G. After she turned 135° anti-clockwise, she faced D. Which point was Nadia at?

Ans: (b) Point

A trapezium R is drawn by joining the dots on the square grid below with four on the space in the same way. 28 straight lines. In the same way,

- (a) draw a triangle with the same area as R. Label the triangle S.
- (b) draw a parallelogram with twice the perimeter of R. Label the parallelogram T.



NCPS_P6_MYE_Paper 1_Booklet B_2022

29 The table shows the number of books read by a class in four months.

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Month	Number of books read		
March	65		
April	53		
May	78		
June	?		

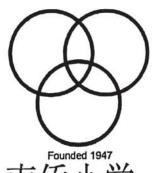
In order to qualify for the 'Class Reader Award', the class has to read an average of 70 books for 3 out of 4 months. What is the least number of books that the class has to read in June in order to qualify for the award?

Ans:			

A fruit stall had the same number of apples, pears and mangoes at first. After 22 mangoes, some apples and pears were sold, there were 85 fruits left. There were twice as many apples as pears left. The number of mangoes left was 10 fewer than the number of apples left. How many pears were sold?

Ans:	

End of Paper 1 Booklet B



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NAN CHIAU PRIMARY SCHOOL MID YEAR EXAMINATION 2022 **MATHEMATICS PAPER 2** PRIMARY 6

Name / Index #		()
Class	Primary 6	
Date	17 May 2022	
Duration for Paper 2	1h 30min	
Marks	Paper 2	55
Parent's Signature	ачуезо	me

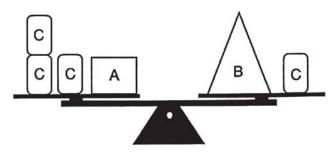
Instructions	1.	Do NOT open this booklet until you are told to do so.
Instructions to students		Follow all instructions carefully.
	3.	Answer all questions.
	4.	Use a dark blue or black ballpoint pen to write your answers in
		the space provided for each question.
	5.	Do not use correction fluid/tape or highlighters.
	6.	The use of an approved calculator is allowed.

This paper consists of 15 pages altogether.

Questions 1 to 5 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (10 marks)

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1 The figure below shows 6 objects placed on a balance scale.



Object A is 240 g lighter than object B. Find the mass of one object C.

Ans:			•
MIIS.			٠,

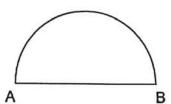
The price of a camera was \$480. Mr Ho bought it at a discount of 5% during a sale. How much did Mr Ho pay for the camera?



Ans:	\$

3 The figure shows a semicircle. AB is the diameter of the semicircle.

Do not write in this space



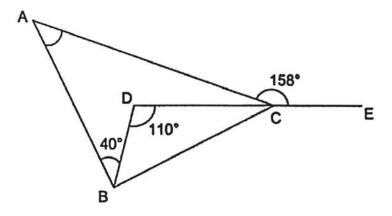
(a) Measure and write down the diameter of the semicircle to the nearest centimetre.

Ans: (a) _____ cm

(b) Find the perimeter of the semicircle. Take $\pi = 3.14$

Ans: (b) _____ cm

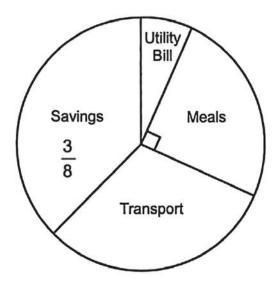
ABC and DBC are triangles. DCE is a straight line. ∠ABD = 40°, ∠BDC = 110° and ∠ACE = 158°. Find ∠BAC.



Ans:

5 The pie chart shows Lynn's spending and savings in April.

Do not write in this space



She also recorded her spending in the table below.

	Amount Spent
Utility Bill	\$180
Transport	\$825
Meals	?

How much did she spend on meals?

Ans: _\$

6	Ben used 140 wooden sticks to form some triangles and squares as shown
	below.



He formed twice as many triangles as squares.

(a) Find the total number of triangles and squares formed.

Ans: (a) ______ [2]

(b) How many wooden sticks did Ben use for forming triangles?

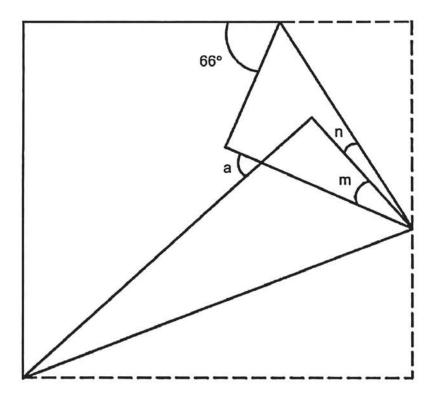
Ans: (b) ______[1]

7	Kare	en and Joanne counted their own heart beats after doing some exercises. en counted 42 heart beats in 15 seconds and Joanne counted 45 heart is in 18 seconds.	Do not write in this space
	(a)	Which girl had a slower heart rate?	
		Ans: (a)[1]	
	(b)	Find the difference in the number of heart beats of the two girls in 1 minute.	
		Ans: (b) [2]	

NCPS_P6_MYE_Paper 2_2022

8 The figure below shows a rectangular piece of paper being folded at two of its corners. ∠m is twice of ∠n. Find ∠a.

Do not write in this space



Ans: _____ [3]

	Number of students	Average marks
Boys	15	76
Girls	20	83

(a) Find the average marks of the students in class 6A.

Ans: (a) _____ [2]

(b) A new student, Jane, joined class 6A and took the test. The average marks of the class became 79. How many marks did Jane score for the test?

Ans: (b) _____ [1]

10 The table shows the number of pens a shop had.

Do not write in this space

Colour	Blue	Red	Green	Black
Number of Pens	86	115	160	?

(a) 45% of the pens were blue pens and black pens. How many black pens were there?

Ans: (a)	[2]

(b) The shop owner bought more blue pens. Did the percentage of the number of green pens increase, decrease or remain the same?

Ans: (b) ______[1]

Ans:(3)	
e M. Um.	
pages he had read to the number of pages he had not read was 2 : 5. After reading another 108 pages on the second day, he was left with 20% of	Do not write in this space
	Zikry was reading a book. At the end of the first day, the ratio of the number of pages he had read to the number of pages he had not read was 2:5. After reading another 108 pages on the second day, he was left with 20% of the book unread. How many pages did the book have?

12 Figure 1 shows a small rectangle ABCD. Figure 2 is made up of six such rectangles. The total shaded area of Figure 2 is 245 cm².

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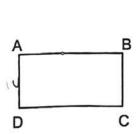


Figure 1

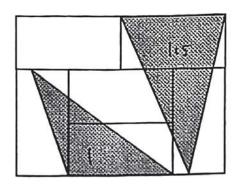


Figure 2

(a) Find the length of AB and BC.

(b) Find the total unshaded area in Figure 2.

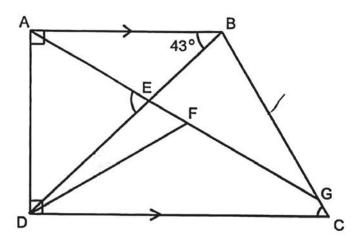
Ans: (b) _____ [2]

13	Mark had three types of towels – face towels, hand towels and bath towels. The number of bath towels was $\frac{3}{5}$ the number of face towels. After selling $\frac{1}{4}$ of the hand towels, he still had 22 more hand towels than face towels. (a) Given that there were 84 bath towels, how many hand towels were not sold?				
	(b)	Ans: (a) [2] What was the total number of the three types of towels he had at first?			
		Ans: (h)			

NCPS_P6_MYE_Paper 2_2022

14 In the figure below, ABCD is a trapezium, ADF is an equilateral triangle and ABG is an isosceles triangle where AB = BG. ∠ABD = 43°. AEFG and DEB are straight lines.

Do not write in this space



(a) Find ∠AED.

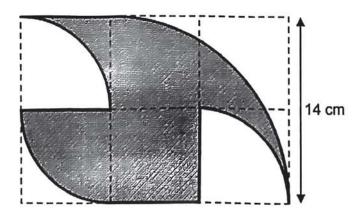
Ans: (a) _____ [2]

(b) Find ∠BCD.

Ans: (b) ______[2]

15 The figure below is drawn on a square grid. Take $\pi = \frac{22}{7}$

Do not write in this space



(a) Find the perimeter of the figure.

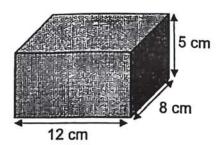
Ans: (a) _____ [2]

(b) Find the area of the figure.

Ans: (b) ______[3]

Delvi had a rectangular block of wood 12 cm by 8 cm by 5 cm. He painted all the faces of the block.

Do not write in this space



(a) Find the volume of the block of wood.

Ans: (a) [1]

(b) Find the total surface area of the block of wood that is painted.

Ans: (b) _____ [2]

(c) Delvi then cut the block into 1-cm cubes. How many of these cubes have none of the faces painted?

Ans: (c) _____[2]

	Hazel had a sum of money. She bought 2 types of candles, large and small.
	She paid \$34.20 for 3 large candles and 5 small candles.

Do not write in this space



She could not buy another large candle with her remaining money as she was short of \$2.60. Instead, she bought another small candle and had \$0.80 left.

(a) How much money did Hazel have at first?

Ans:(a) ______[3

(b) John bought 39 large and small candles. He spent a total of \$202. How many large candles did he buy?

Ans:(b) ______ [2]

End of Paper

2022 P6 Math SA1 Nan Chiau Primary School

- (1) 2
- (2) 3
- (3) 1
- (4) 4
- (5) 4
- (6) 3
- (7) 1
- (8) 2
- (9) 4
- (10) 3
- (11) 3
- (12) 2
- (13) 3
- (14) 2
- (15) 3

16.173000

17.25

18 700

19.191

20. 13

21a)M,E,T

2/b) M, E

22.18

23 12

24 32

15.85

26.360

27a)F

27b)E

28.

29.67

30 31

1.
$$240+2=120$$
Ans. $120g$

2. $100-5=95$
 480×95
 $=456$
Ans. $$456$

3. a) $4cm$
b) $4XTX=14=10.28$
Ans. $10.28cm$
4. $LACB=7180^{9}-158^{9}$
 $=22^{9}$
 $LBDC=360^{9}-110^{9}$
 $=250^{9}$
 $LBAC=360^{9}-250^{9}-22^{9}-40^{9}$
Ans. 48^{9}

5. $\frac{3}{8}+\frac{1}{4}=\frac{2}{8}$
 $1-\frac{2}{8}=\frac{2}{8}$
 $180+825=1005$
 $180+825=1005$
 $180+825=1005$

$$5.\frac{3}{8}+4=\frac{5}{8}$$
 $1-\frac{2}{8}=\frac{3}{8}$
 $180+875=1005$
 $1005\times\frac{3}{8}\times4=670$
Ans: \$670
$$6a) 3\times2+4=10$$

$$140+10=14$$

$$14x2+14=42$$
 $Ans.a)42$
 $6b)14x2x3=84$
 $Ans.b)84$
 $7a)45+18x15=37.5$

Karen per 15 secs 42 fuster Aws: a) Joanne 7b) 45 - 18x60 = 150 42=15x60=168 168-120=18 Ans: b) 18 8(180°-69°) ; J = 57° Lm > (180°-57°-90°):3X) = 22 La -> 180°-90°-22° =68° AMS 68° 9 a) Total +76x15+20x93 = 2800 15+20=25 2800 + 35 = 80 Ans. a) 80 96)35+1=36 36x7a=2844 2844-2800=44 Ans. 6)44 10a) 100-45=55 $(1/5+160)^{1}55=5$ 15×45-86=139 Ans: a)139 10b) Ans: b) Declease 11) 2+5=7 美一言=35 108X発=210 Aus: 210 490 12) a) 245 XZ= 490:5=98 98=1447 Ansa) AB: 14cm BC: 7cm

13 a) 84x 5=1+0 Joanne per 15 secs 140+22=162 Ans: 10) 162 37,5 り)1-4=3 slove/ 162X\$ +140+84=440

Ans. b) 440