

新加坡福建会馆属下五枝小六统-

西西 • 爱同。崇福。南侨。 光光

5-SCHOOL COMBINED PRIMARY 6 PRELIMINARY EXAMINATION TAO NAN • AI TONG • CHONGFU • NAN CHIAU • KONG HWA SINGAPORE HOKKIEN HUAY KUAN

MATHEMATICS PAPER 1

Total Time for Booklets A and B: 50 min

INSTRUCTIONS TO CANDIDATES

- Do not open this booklet until you are told to do so. Follow all instructions carefully.
- Answer all questions
- Shade your answers in the Optical Answer Sheet (OAS) provided
- You are not allowed to use a calculator.

This booklet consists of 6 printed pages

6.0		Class
20	TOTAL	Name
\.		School

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 (1, 2, 3 or 4). Shade the oval (1, 2, 3 or 4) on the Optical Answer Sheet.

(20 marks)

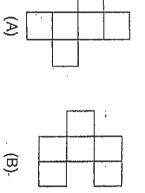
- 1 Round off 576 594 to the nearest ten thousands.
- (1) 570 000
- (2) 576 600
- (3) 577 000
- (4) 580 000
- N Which of the following is the smallest number that can be divided by 4 with no remainder?
- (1) 4016
- (2) 3338
- (3) 1556
- (4) 1014
- Ć The perimeter of an equilateral triangle is h cm. Find the length of one side of the triangle in terms of h.
- (1) $\frac{h}{3}$ cm
- (2) $\frac{3}{h}$ cm
- (3) 3h cm
- (4) (3 + h) cm

\neg	st B		(4)	(3)	(2)	(1)	ΙS		· ·	<i>∞</i>	(;	$\overline{}$. <
	ower		J	٣	٣		ow c		(4)	(3)	(2)	(1)	Vhat
	Bowen uses the letters L, M, N and O to form a pshown below. Which letter is in the 69 th position?		9 ує	9 ye	8 ye	8 ye	Sue-Ann was born on 15 August 2002. How old will she be on 15 March 2011?	_	0.005	0.05	2	20	What is 50 divided by 1000?
	es th		ars	ars	ears	ars	/as b	`	. 05	51			· divi
	e lett Vhicl		8 mc	7 mc	8 mc	7 mc	om e be						ded
	ers I		9 years 8 months	9 years 7 months	8 years 8 months	8 years 7 months	Sh 1:						by 1:
	er is			•		•	5 Au						2000
	in ⊠ ⇔						gust arch		·		•		
	nd C						 200 201		** *	:			
	to f	-					13.2			*			
	orm										•		
	a pa						•						
	itterr												
	. ;										•		
	Bowen uses the letters L, M, N and O to form a pattern. The first 16 letters are shown below. Which letter is in the 69^{th} position?										_		
	1 16												
	letter											•	
	's are			÷		_	 						

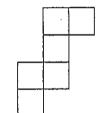
(1)(2)(3)

- At this rate, how many words can she type in 5 minutes? Jane can type 50 words in 30 seconds.
- (1) 100
- (2) 150
- (3) 300
- (4) 500
- \odot Each of the figures below is made up of nine squares. In each figure, four squares are shaded. Which figure is symmetrical?
- (1)
- (2)
- (3) .
- (4)
- 9 The mass of box A is 6 kg. The total mass of Box B and Box C is 6 kg. What is the average mass of the 3 boxes?
- (1) 6 kg
- (2) 2 kg
- (3) 3 kg
- (4) 4 kg

6 Which of the following nets can be folded to form a cube?

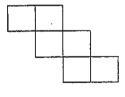






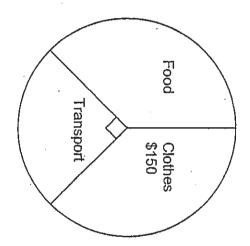
0

 \bigcirc



A only

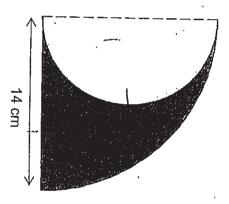
- (2) (2) A and B
- ω A, C and D
- **(4)** All of the above
- 그 The pie chart shows how Mrs Ang spent her money last month.



- She spent \$105 on transport.

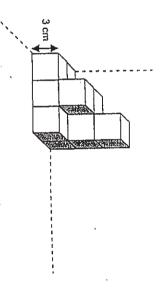
 How much more did she spend on food than transport?
- Ξ
- (2) \$60
- (3) \$165
- (4) \$270

- 12 speed of 72 km/h towards Town B for $2\frac{1}{4}$ h. How far more must he travel to reach Town B? Town A and Town B are 980 km apart. A motorist travelled from Town A at a
- (1) 32 km
- (2) 162 km
- (3) 818 km
- (4) 948 km
- 3 spectacles? In a school, 55% of the pupils are boys. 20% of the boys and 10% of the girls wear spectacles. What percentage of the pupils in the school does not wear
- (1) 85%
- (2) 84.5%
- (3) 70%
- (4) 15.5%
- Find the perimeter of the shaded part. (Take $\pi = \frac{22}{7}$) The figure below is made up of a quadrant and a semi-circle.



- (1) 44 cm
- (2) 47 cm
- (3) 58 cm
- (4) 77 cm

The solid figure below is made up of 3-cm cubes. If Leny wants to form a cuboid of volume 486 cm³, how many more 3-cm cubes does she need?



- Ξ
- (3) (N) 9
- 4



新加坡福建会馆属下五校小六统-道南。爱同。崇福。南侨。光华

5-SCHOOL COMBINED PRIMARY 6 PRELIMINARY TAO NAN • AI TONG • CHONGFU • NAN CHIAU • KONG HWA SINGAPORE HOKKIEN HUAY KUAN EXAMINATION

BOOKLET B MATHEMATICS PAPER 1 2010

Total Time for Booklets A and B: 50 min

INSTRUCTIONS TO CANDIDATES

- √ Do not open this booklet until you are told to do so.
 √ Follow all instructions carefully.
- Follow all instructions carefully.
- Answer all questions
- You are not allowed to use a calculator

This booklet consists of 6 printed pages

20		
20	TOTAL	Name
	٠	School

SHHK DA Math Prolim 2010 Paner 1	
oredim 2010	
Paner 1	

Do not write in this space

stated. 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 16 (10 marks)

Find the sum of and 1000 S as a decimal.

Ans:

17 The sum of 3 numbers is 246. The difference between the biggest number and smallest number is 2. What is the smallest number?

Ans:

18 What is the missing number in the box?

15 : 12 = 25 :

Ans:

9 10 3 of a number is 54. What is the number?

longer piece was thrice as long as the shorter piece. How long was the shorter piece of cloth? Mrs Tan cut a piece of cloth of length 24 m 28 cm into 2 pieces. The Ans:

20

Do not write in this space

CH

1+16p+3-8p-2+25p

7

Simplify the following expression.

Ans:

22 The original price of a packet of biscuits was \$2. During a sale, a discount of 15% was given. How much did Weiwei pay for the packet of biscuits during the sale?

Ans: \$

23 There were 6 bottles of apple juice. The apple juice was then poured equally into 12 identical glasses. If there were *p ml* of juice in each bottle, what was the amount of juice in each glass?

Ans: тl

24 Study the number pattern shown below. What is the number marked A?

$$3 \times 37 = 111$$

$$6 \times 37 = 222$$

$$9 \times 37 = 333$$

$$A \times 37 = 888$$

$$A \times 37 = 888$$

Ans:

25 A documentary programme on Discovery Channel lasted for 1 h 40 mín. It ended at 8.35 p.m. What time did the programme start?

Ans: p.m.

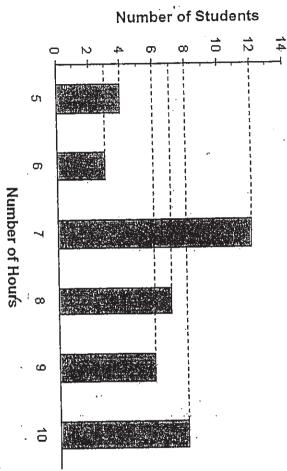
Total marks for questions 16 to 25

10

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 provided. For questions which require units, give your answers in the units (10 marks)

Do not write in this space

26 A survey was conducted on a group of students to find out the number of hours each of them spent surfing the Internet in a week.



Find the percentage of students who spent at least 9 hours that week surfing the Internet.

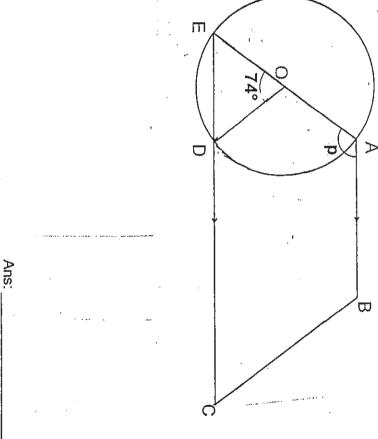
Ans: _____%

27 A wheel of diameter 49 cm makes 20 revolutions in 4 minutes How fast does it turn in m/min? (Take π =

Ans: _____m/min

28 The figure below, not drawn to scale, shows a circle with centre O and a trapezium ABCE. Find ∠p.

Do not write in this space

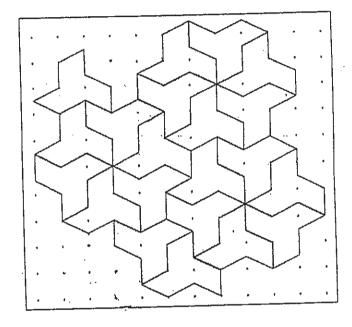


29 Jayden. If Jayden received 9 sweets, find the total number of sweets shared by the three girls. the ratio 6:5:7. Alice then gave Alice, Daisy and Felicia shared some sweets among themselves in $\frac{1}{8}$ of her sweets to her brother,

Ans:

the box. The pattern in the box shows part of a tessellation. Extend the tessellation by drawing two more unit shapes in the space provided in Do not write in this space

30



END OF PAPER

6



新加坡福建会馆属下五校小六统一考试道南。爱同。崇福。南侨。光华

5-SCHOOL COMBINED PRIMARY 6 PRELIMINARY EXAMINATION TAO NAN • AI TONG • CHONGFU • NAN CHIAU • KONG HWA SINGAPORE HOKKIEN HUAY KUAN

2010 数字 MATHEMATICS PAPER 2

Total Time: 1 h 40 min

INSTRUCTIONS TO CANDIDATES

- √ Do not open this booklet until you are told to do so.
- Follow all instructions carefully.
- √ Answer all questions.
- Show your working clearly as marks are awarded for correct answers
- You are allowed to use a calculator.

This booklet consists of 15 printed pages.

60	ķ	F	Class
	TOTAL		Name
\			School

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

(10 marks)

Do not write i this space

What was the sum of money? A sum of money was divided among Charles, Devi and Enci in the ratio 2:3:4 respectively. Enci received \$60 more than Charles.

Ans: \$_

N Mr Lim was travelling at a speed of 50 km/h for 1 h 30 min and completed the rest of his journey at 70 km/h for 30 min. Find the average speed of his whole journey.

Ans:

km/h

_

Recipe for Strawberry Icy-pop (to serve 8 people)

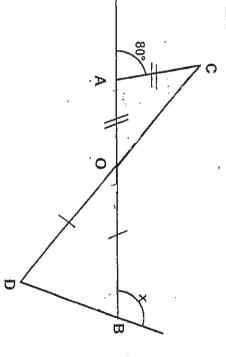
Do not write in this space

640 g strawberries 220 g of sugar 100 mt of water

Wendy wants to make icy-pop to serve 10 people. Using the recipe above, how much strawberries does she need?

Ans:_____g

The figure below is not drawn to scale. AB and CD are straight lines. Find $\angle x$.



Ans:

Ü At a bakery, muffins are sold at \$1 each. When a customer buys 5 muffins, she can buy one more at half the price. What is the greatest number of muffins that a customer can buy with \$20? Ans: Do not write this space

ယ

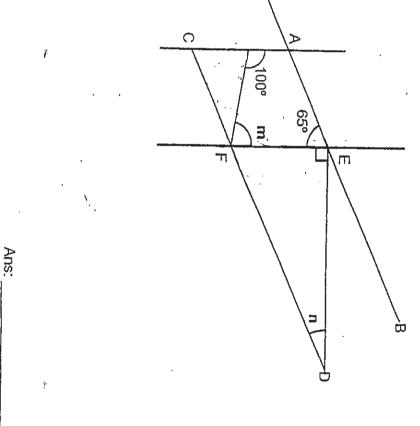
question. available is shown in the brackets [] at the end of each question or part-For questions 6 to 18, show your working clearly in the space provided for each question and write the answers in the spaces provided. The number of marks (50 marks)

ch Do not write in this space

6 Randy brought along a certain amount of money to buy files. If he bought the files at \$1.50 each, he would have \$17.50 left. If he bought the same number of files at \$2.70 each, he would have \$9.10 left. How much money did he bring along?

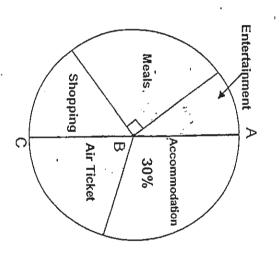
Ans: [3]

~ parallel to EF. Find the sum of \angle m and \angle n. In the figure below, not drawn to scale, AB is parallel to CD and AC is



3

 $^{\circ}$



- (a) Find the percentage of her expenses spent on entertainment.
- 9 If she spent \$9000 for the holiday, how much did she spend on shopping?

Ans: (a)
[1]

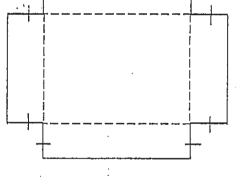
blue pens are there? The number of pens in Box X and Box Y are in the ratio 3:2. All the pens in Box Y are green. The ratio of green pens to blue pens in Box X is 4:5. There are 12 more green pens in Box Y than in Box X. How many

Do not write in this space

Ans:_____[3]

10 The figure below shows the net of a rectangular box without a lid.

Do not write this space



The perimeter of the net of the rectangular box above is 72 cm. The height of the box is 4 cm. The length of the box is $1\frac{1}{2}$ times the breadth of the box. Find the volume of the box.

าร: ______ [3]

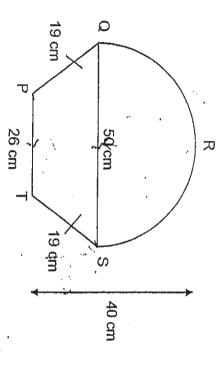
In the figure below, not drawn to scale, PT is parallel to QS. QP = ST = 19 cm, PT = 26 cm and QRS is a semicircle with a diameter of 50 cm.

Do not write in this space

7

- (a) Find the perimeter of the figure.(b) Find the area of the figure.

(Take $\pi = 3.14$)



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

12 A series of figures is formed by using 1-cm squares as shown in the table below.

Do not write in this space

Figure 4			Figure 3		Figure 2		Figure 1		Figure
	•	26		22		18			Perimeter of figure (cm)
•		24		1 6		10		6	Area of figure (cm²)

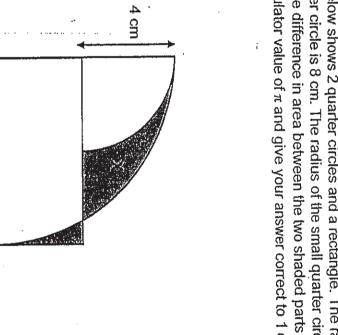
- <u>O</u> D
- Draw Figure 1 in the table above. [1] Write down the perimeter of Figure 1 in the table above. [1] Find the area of Figure 100.

	Ans: (c)	
la la		
	[2]	

place. The figure below shows 2 quarter circles and a rectangle. The radius of the big quarter circle is 8 cm. The radius of the small quarter circle is 4 cm. Find the difference in area between the two shaded parts X and Y. Use the calculator value of π and give your answer correct to 1 decimal

Do not write in this space

13



8 cm

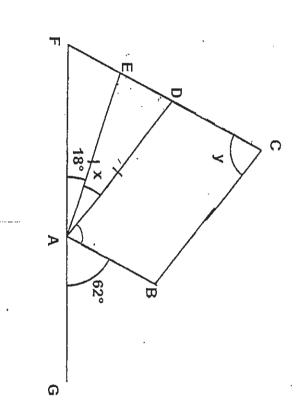
Ans: 至

In the figure below, not drawn to scale, ABCD is a parallelogram. AB, FC and FG are straight lines. ADE is an isosceles triangle.

Do not write this space

14

- (a) Find $\angle x$ (b) Find $\angle y$.



Ans: (a)

3

9

A car and a van started travelling from Town X to Town Y at the same time. The distance between the two towns was 225 km. Both vehicles the van. When the car reached Town Y, the van was still 45 km away did not change their speed. The car arrived at Town Y $\frac{3}{4}$ h earlier than What was the speed at which the car was travelling?

Do not write in this space

5

Ans:_____[4]

12

Yanling had 60% more stamps than Lena. Tricia had 75% fewer stamps than Yanling. Yanling and Lena gave Tricia some stamps in the ratio Yanling had 300 stamps more than Lena in the end. How many stamps did Lena give to Tricia? 4:1. As a result, Tricia had $2\frac{1}{2}$ times as many stamps as before and

16

Do not write in this space

Ans: _____[5]

ವ

17 The average length of 6 ropes was 80 cm. The average length of 4 of the ropes A, B, C and D was 15 cm more than the average length of the remaining 2 ropes E and F.

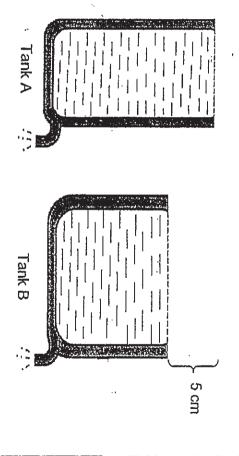
Do not write in this space

(a)

€ Find the average length of ropes E and F.
Give your answer in metres.
If Rope E had been 18 cm shorter and Rope F had been 12 cm longer, they would have been of the same length.
Find the actual length of Rope E.

		Ans:	
	(b)	(a)	
٨			
	}		
	2	<u> </u>	

8 The figure below shows 2 completely-filled tanks being emptied of the Do not write in water from 2 different taps.



The taps at Tank A and Tank B were turned on at 7 a.m. and 8.30 a.m. respectively, until both the tanks were completely empty. At 11 a.m., the water level in both the tanks was the same. At 12.30 p.m., Tank B was rate of the flow of water from each tap was constant throughout, what completely empty and Tank A was only completely empty at 1 p.m. If the was the height of Tank A?



END OF PAPER HAVE YOU CHECKED YOUR WORK?

Answer Ke

EXAM PAPER 2010

SCHOOL: HOKKIEN PRIMARY

SUBJECT: PRIMARY 6 MATHEMATICS

TERM : PERLIMINARY

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
4	3	1.	3	1	2	4	1	4	3	2	3	2	3	1

16)0.805

17)81

18)20

19)180

20)607cm

21)33p +2

22)\$1.70

23)(p/2)

24)24

25)6.55p.m.

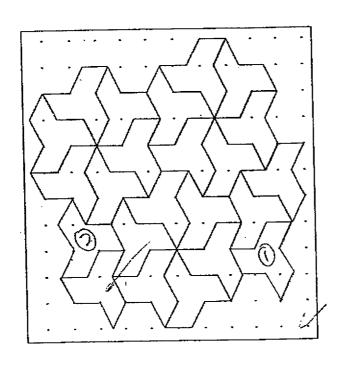
26)35%

27)7.7m/min

28)127°

29)216sweets

30)



Paper 2

25cm ₂	Total area >981.25+180+390=1551.25cm2
	$26 \times 15 = 390$ Area of semi-circle $\rightarrow \frac{1}{2} \times 3.14 \times 25 \times 25$ = 981.25
	Area of triangle $\frac{3}{2} \times 15 \times 12 = 90$ 90 x 2 = 180
	40 – 25 =15cm
	24÷2 = 12cm
	78.5 + 19 + 19 + 26 = 142.5
12)a) b)14 c)10104	11)a)Perimeter of semi-circle $\Rightarrow \frac{1}{2} \times 3.14 \times 50 = 78.5$
10)72 (4x8) = 40 3 + 3 + 2 + 2 = 10 40 ÷ 10 = 4 4 x 3 = 12 4 x 2 = 8 12 x 8 x 4 = 384 ₃ The volume is 384cm ₃	9)6u − 4u =2u 2u→12 1u→6 5u→30 blue pens
8)a)50% - 30% = 20% 20%÷2 =10% b)75% - 30% - 30% =15% 15%/100% x 9000 = \$1350	7)180° -80° -65° = 35° 180° -65° -35° =80° (∠M) 180° -80° -35° =65° 90° -65° = 25° (∠n) 80° +25° = 105° The sum is 105°
6)\$2.70 - \$1.50 = \$1.20 \$17.50 - \$9.10 = \$8.40 \$8.40 ÷ \$1.20 = \$7 \$(7x1.50) + \$17.50 = \$28 He brought along \$28	5)5 +0.50 =5.50 $20 \div 5.50 =3$ $3 \times 5.50 =16.5$ 20 - 16.5 = 3.5 3 + (3x6) = 3 + 18 = 21 muffins
4)180°40° == 140° 140° ÷ 2 == 70° 180° 70° == 110°	3)8u→640 1u→80 10u→800g
2)50 x 1½ = 75 $70 \times ½ = 35$ 35 + 75 = 110 110/2 = 55km/h	1)4u - 2u = 2u 2u + 60 1u + 30 2u + 3u + 4u = 9u 9u + \$270

$180^{\circ} - 160^{\circ} = 20^{\circ}$ $\angle \times is 20^{\circ}$ b) $180^{\circ} - 18^{\circ} - 20^{\circ} - 62^{\circ} = 80^{\circ}$ $\angle y is 80^{\circ}$ $16)2 \times 2^{1/2} = 5$ $300 \div 6 = 50$ $50 \times 3 = 150$ Lena gave Tricia 150 stamps 18)45cm	16 - 4 = 12 12 12 12 12 12 13 \approx 5.7 The difference in area is 5.7 cm ² 15)45 ÷ $\frac{3}{4}$ = 60 225 - 45 = 180 180 ÷ 60 = 30 225 ÷ 3 = 75 The car was travelling at 75 km/h 17)a)80 × 6 = 480 15 × 4 = 60 480 - 60 = 420 420 ÷ 6 = 70 70 × 2 = 140 (E and F) 140 ÷ 2 = 70 70 cm = 0.7 m b)140 - 18 - 12 = 110 110 ÷ 2 = 55 55 + 12 + 18 = 85 cm long
14)a)180° -18° -62° = 100°	13)8 x 4 = 32
180° -100° = 80°	1/4 x II x 8 x 8 = 16II
80° +80° =160°	1/4 x II x 4 x 4 = 4II

₹ .

