

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

2016

数学 MATHEMATICS PAPER 1 BOOKLET A

Date: 2 August 2016 Total Time for Booklets A and B: 50 min

INSTRUCTIONS TO CANDIDATES

 $\sqrt{100}$ Do not open this booklet until you are told to do so.

 $\sqrt{}$ Follow all instructions carefully.

 \checkmark Answer all questions.

 $\sqrt{10}$ Shade your answers in the Optical Answer Sheet (OAS) provided.

 $\sqrt{1}$ The use of calculators is <u>NOT</u> allowed.

This booklet consists of 7 printed pages.

School	•		
Name	•	TOTAL	
Class	•		20

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) and shade your answer on the Optical Answer Sheet. (20 marks)

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1 Round off 239 099 to the nearest hundred.

- (1) 239 000
- (2) 239 100
- (3) 239 900
- (4) 240 000

2 Which digit in 57.92 is in the tens place?

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

3

Which one of the following does not have a value of 5k?

- (1) 5k ÷ 1
- (2) 2k + 3k
- (3) $5 \times k$
- (4) 5+k

4 How many centimetres are there in 20.3 metres?

- (1) 2030
- (2) 203
- (3) 2.03
- (4) 0.203

5 In the number line below, what is the fraction indicated by the arrow?



27 33

SHHK Prelim 2016_P6 MA_Paper 1_Booklet A

6

(3)

(4)

69





Months

During which one-month period was the increase in his savings the most?

- (1) Jan to Feb
- (2) Feb to Mar
- (3) Mar to Apr
- (4) Apr to May

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In the figure below, not drawn to scale, ABCD is a rhombus. CDE is a straight line and \angle CAD is 36°. Find \angle ADE.



9

The pie chart below shows the brands of mobile phones (A, B, C, D and E) sold in a year. How many Brand A mobile phones were sold?



10 There are 11 oranges in Basket A. There are 3 more oranges in Basket A than in Basket B. What is the ratio of the number of oranges in Basket B to the number of oranges in Basket A?

- (1) 11:14
- (2) 14:11
- (3) 11:8
- (4) 8:11

11

What is the perimeter of the figure shown below?



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- 12 The average of two numbers is 18. The bigger number is 3 times the smaller number. Find the bigger number.
 - (1) 6
 - (2) 12
 - (3) 27
 - (4) 54
- 13 In the figure, not drawn to scale, PQR is an equilateral triangle. QRS is a straight line and QRT is an isosceles triangle where QR = RT. ∠PQT = 38°. Find ∠PRT.



- (1) 22°
- (2) 76°
- (3) 136°
- (4) 142°

14 The figure below is made up of 6 identical rectangles of length 8 cm each. Find the area of the shaded triangle.



- (1) 56 cm^2
- (2) 96 cm^2
- (3) 128 cm²
- (4) 192 cm^2
- 15 Madam Lim bought 4 kg of flour. She used $\frac{1}{4}$ of it to bake a cake and 250 g to bake a pie. How much flour had she left?
 - (1) $\frac{1}{2}$ kg (2) $1\frac{1}{4}$ kg (3) $2\frac{3}{4}$ kg (4) $3\frac{1}{2}$ kg



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2016

数学 MATHEMATICS PAPER 1 BOOKLET B

Date: 2 August 2016 Total Time for Booklets A and B: 50 min

INSTRUCTIONS TO CANDIDATES

- $\sqrt{100}$ Do not open this booklet until you are told to do so.
- $\sqrt{1}$ Follow all instructions carefully.
- \checkmark Answer all questions.
- $\sqrt{1}$ The use of calculators is <u>NOT</u> allowed.

This booklet consists of 8 printed pages.

School	•			
Name	:	TOTAL		
Class	•		20	

	ided. For questions which require units, give your	answers in the units state (10 mark	
16	What is the remainder when 1240 is divided by 3	30?	
		Ans:	
17	Find the difference between 5 and 100.3. Express your answer as a decimal.	· · · · · · · · · · · · · · · · · · ·	- •
			••
		Ans:	_
18	Kelly scored 32 out of 40 marks in a class test. Express her score as a percentage.		
-		Ans:%	- 6

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SHHK Prelim 2016_P6 MA_Paper 1_Booklet B



SHHK Prelim 2016_P6 MA_Paper 1_Booklet B

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Do not

write in this space

25 The diagram below shows the locations of play equipment at a playground.

SHHK Prelim 2016_P6 MA_Paper 1_Booklet B

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 stated. (10 marks)

Do not write in this space

26 The pie chart below shows the number of children who borrowed different types of books in a library. 40 children borrowed comics. Fiction Non-Fiction 50 Magazines Comics 25% How many children borrowed magazines? • • Ans: 5

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(b) Extend the tessellation by drawing one more unit shape in the space provided in the box.

SHHK Preim 2016_P6 MA_Paper 1_Booklet B



SHHK Prelim 2016_P6 MA_Paper 1_Booklet B

30 Ahmad's savings is $\frac{4}{5}$ of Siti's savings but $\frac{2}{5}$ of James' savings. The difference between Siti's and James' savings is \$125. How much is Ahmad's savings?

Do not write in this space







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数学 MATHEMATICS PAPER 2

Date: 2 August 2016 Total Time: 1 h 40 min

INSTRUCTIONS TO CANDIDATES

- $\sqrt{100}$ Do not open this booklet until you are told to do so.
- \checkmark Follow all instructions carefully.
- $\sqrt{Answer all questions}$.
- \checkmark Write your answers in this booklet
- $\sqrt{1}$ The use of an approved calculator is expected, where appropriate.

This booklet consists of 15 printed pages.

School	•			i
Name		TOTAL	•	
Class	:		60	

	its stated. (10 marks)	space
;	There are 210 people in a room. 30% of them are adults. 42 children entered the room. What percentage of the people in the room now are adults?	
	Ans:%	
т	he solid below is made up of 2-cm cubes. Find the volume of the solid.	J
	•	









8 At 10 a.m., a car started from Town X and travelled towards Town Y at a speed of 80 km/h. At the same time, a lorry started from Town Y and travelled towards Town X along the same route at a speed of 50 km/h. The distance between Town X and Town Y is 182 km. At what time did they meet?

Do not

space

write in this



SHHK Prelim 2016_P6 MA_Paper 2

10 Mr Chan needs 6 litres of paint. He checks the advertisements and finds the following sales :

Do not write in this space

Store	Price	
Α	\$7 per litre	·····
B	\$9 per litre	
	Buy 3 litres and get the 4 th litre free	

(a) What is the difference in price for 6 litres of paint between the two stores?

(b) Which store should he go to if he wants to get a better deal?

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

11	There were 180 more bags in Shop A than Shop B at first. After $\frac{1}{5}$ of the
	bags were transferred from Shop A to Shop B, there were 24 more bags in Shop B than Shop A. How many bags were there in Shop B at first?

Do not write in this space

[4]

Ans:

How much had each of them a	it first?	
	-	
	-	
	\$	
,		
	Ans : George :	
	Alan :	
	rudii.	
		<u></u>

12 George and Alan had some money. George spent $\frac{5}{12}$ of his money and

money left. George spent \$35 more than Alan.

Alan spent $\frac{2}{5}$ of his money. After that, they both had the same amount of

Do not write in this space

13 The figure is made up of two quarter circles and a rectangle. The radius of the larger quarter circle is the same as the length of the rectangle. Find the sum of the perimeters of the two shaded parts. (Use $\pi = \frac{22}{7}$)

Do not write in this space



SHHK Prelim 2016_P6 MA_Paper 2



15	70% of the participants at a mass run were adults and 25% of the remaining participants were boys. There were 2850 more adults than girls. How many boys were there at the mass run?	Do not write in this space
		·
		•
		•
	•	
`	•	
		[]
	Ans : [4]	
		LJ

-

16 (a) A number sequence is shown below.

3, 7, 3, 7, 4, 3, 7, 3, 7, 4, 3, 7, 3, 7, 4,

What is the sum of the first 126 numbers?

(b) Look at the number pattern below.

Column A	Column B	Column C	Column D
	1	2	3
7	6	5	4
8	9	10	11
15	14	13	12
16	17	18	19
•••			

In which column will the number '909' appear?

	· · · · ·			
	Ans : (a) (b)	<u>[3]</u> [2]		i
· ·		\$_J]	

Do not write in this space A librarian bought \$2122.40 worth of books. The ratio of the number of
English books she bought to the number of Chinese books was 5 : 2.
The total cost of the English books was \$1125.60 more than the total cost of the Chinese books. Each English book cost \$2.70 more than each Chinese book. How many books did the librarian buy?

Do not write in this space

[5]

Ans:

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18 A tank measuring 70 cm by 50 cm by 86 cm is completely filled with water. Some of the water is poured into two empty containers, A and B, such that the height of the water level in Container A is twice the height of the water level in Container B. The heights of the water levels in both Containers A and B are whole numbers.

Do not write in this space

- (a) What is the highest possible water level in Container B in the end?
- (b) How much water is left in the tank? Express your answer in litres.



SHHK Prelim 2016_P6 MA_Paper 2

EXAM PAPER 2015

SCHOOL	: SHHK	•
SUBJECT	: PRIMARY (MATHEMATICS
TERM	: PRELIMINA	RY EXAM

PAPER 1 Booklet A

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
2	1	4	1	4	3	2	• 2	3	4
Q11	Q12	Q13	Q14	Q15			[
4	3	2	2	3	****, *****************				

Booklet B

Q16 10

Q17 95.3

Q18 80%

Q19 60km/h

Q20 64cm³

Q21 $\frac{4p}{3}$

Q22 \$40

Q23 28

Q24 7068

Q25 swing

Q26 30

Q27(a)/(b)



Q28 239°

Q29 96cm²

Q30 \$100

1

Ih 24min

11-24a-m

--]

ML001

PAPER 2

- Q1 $30\% \times 210 = 63$ 210 + 42 = 252 $\frac{63}{252} \times 100\% = 25\%$
- Q2 2cm x 2cm x 2cm = 8cm³ 8cm³ x 18 = 144cm³
- Q3 $\frac{1}{2}$ x 15cm x 3.5cm = 24.25cm²

6

- Q4 ∠BAD = 180° -- 95° = 85°
- Q5 107% → \$963 100% → **\$900**
- Q6 (a)
 - (b) 10 x 1.95 = 19.5 (Milo) 6 X 1.70 = 10.2 (Coffee) 12 x 1.70 = 20.4 (Tea) 16 x 1.20 = 19.2 (Milk) 8 x 0.90 = 7.2 (Yakult) Tea was the most amount collected.



They met at 11.24a.m

Q9

$$13 \text{ cm} - 6 \text{ cm} = 7 \text{ cm}$$

leans in the state of the second

Q10 (a) A =

A = \$7 X 6 = \$42 B = \$9 X 5 = \$45

\$45 - \$42 = \$3 (difference) $\rightarrow 6l$

(b) He should go to store A

Q11

Shop A	Shop B	
1 unit + 180	1 unit	
5 units + 180	5 units	
$\frac{1}{5}$ x 5 units = 1 unit	5 units + 1 unit + 36	
$\frac{5}{5}$ x 180 = 36	= 6 units + 36	
5 units - 1 units = 4 units		
180 - 36 = 144		
4 units + 144	6 units + 36	

4 units + 144 +24 = 6 units + 36 4 units + 168 = 6 units + 36 6 units - 4 units = 168 - 36 2 units = 132 1 unit = 66 66 x 5 = 330 (Shop B)

Q12

	George	Alan
Spent	$\frac{5}{12} = \frac{15}{36}$	$\frac{2}{5} = \frac{14}{35}$
left	$\frac{7}{12}$	<u>3</u> 5
Numerator Equivalent Fraction	$\frac{7}{12} = \frac{21}{36}$	$\frac{3}{5} = \frac{21}{35}$

15 units - 14 units = 1 unit 1 unit = 35 36 units = 1260 (George) 35 units = 1225 (Alan)

- Q13 $(\pi \times 14) \div 4 = 3.5\pi$ $7\pi + 3.5\pi = 10.5\pi$ = 33cm 33cm + 7cm + 7cm = 47cm
- Q14 (a) $\angle FBG = (38^{\circ} 10^{\circ}) \div 2$ = 14^o $\angle BFG = 90^{\circ} - 14^{\circ}$ = 76°
 - (b) $\angle GFE = 180^{\circ} (76^{\circ} \times 2)$ = 28° $\angle BEF = 360^{\circ} - 10^{\circ} - 270^{\circ} - 28^{\circ}$ = 52°
- Q15 100% 25% = 75% $75\% \times 30\% = 22.5\%$ 70% - 22.5% = 47.5% $47.5\% \rightarrow 2850$ $\frac{25}{100} \times 30\% = 7.5\%$ $7.5\% \rightarrow 450 \text{ (boys)}$
- Q16 (a) 126 ÷ 5 = 25R1 3 + 7 + 3 + 7 + 4 = 24 (24X25) + 3 = **603** (sum of 126 numbers)
 - (b) (909 7) ÷ 8 = 112R6 909 will appear in column C.
- Q17 (2122.40 1125.60) ÷ 2 = 498.40 (498.40 + 1125.60) ÷ 5 = 324.80 498.40 ÷ 2 = 249.2 324.80 - 249.20 = 75.60 75.60 ÷ 2.70 = 28 28 X 7 = **196** (book bought)
- Q18 70 x 50 x 86 = 301000 60 x 40 = 2400 (base area of A) 45 X 40 = 1800 (base area of B)

2400 + 2400 + 1800 = 6600 Base area x Height = Volume 301000 ÷ 6600 = 45R4000

4

(a)45cm (b) 4t