SINGAPORE CHINESE GIRLS' SCHOOL

FIRST SEMESTRAL ASSESSMENT 2019

PRIMARY 5

MATHEMATICS PAPER 1

BOOKLET A

Name :	13 May 2019

Class: Primary 5 SY

		Marks attained	Max Mark
Paper 1	Booklet A		20
	Booklet B		25
Paper 2			55
Total Marks			100

Parent's	s Signature

15 Questions 20 Marks

Total Time for Booklets A and B: 1 h

INSTRUCTIONS TO CANDIDATES

Do not open this booklet until you are told to do so. Follow all instructions carefully.

Answer all questions.

The use of calculator is NOT allowed.

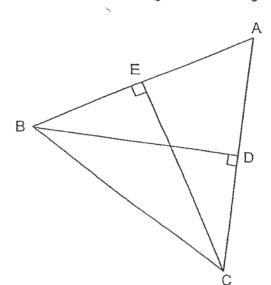
Booklet A

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 correct oval (1, 2, 3 or 4) on the Optical Answer Sheet. (20 marks)

- 1. What is the place value of 5 in 1 586 924?
 - (1) millions
 - (2) thousands
 - (3) ten thousands
 - (4) hundred thousands
- 2. Round off 587 497 to the nearest thousand.
 - (1) 580 000
 - (2) 587 000
 - (3) 588 000
 - (4) 590 000
- 3. Express $1\frac{3}{5}$ as a decimal.
 - (1) 1.3
 - (2) 1.5
 - (3) 1.6
 - (4) 1.7

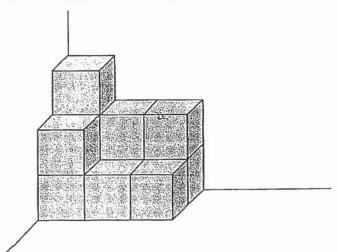
- 4. Which one of the following fractions is the smallest?
 - (1) $\frac{2}{5}$
 - (2) $1\frac{1}{4}$
 - (3) $\frac{2}{3}$
 - (4) $\frac{7}{6}$
- 5. Find the value of $4\frac{3}{5} 2\frac{2}{3}$.
 - $(1) 1\frac{1}{3}$
 - (2) $1\frac{14}{15}$
 - (3) $2\frac{1}{2}$
 - (4) $2\frac{1}{15}$
- 6. Find the value of $\frac{5}{6} \times \frac{3}{4}$.
 - (1) $\frac{1}{3}$
 - (2) $\frac{1}{5}$
 - (3) $\frac{5}{8}$
 - (4) $\frac{4}{5}$

- 7. There are 42 children in a class. 26 are boys. Find the ratio of the number of girls to the total number of children.
 - (1) 8:13
 - (2) 8:21
 - (3) 13:8
 - (4) 13:21
- 8. Given the base is AB, which line is the height of the triangle?



- (1) AC
- (2) BC
- (3) BD
- (4) CE
- 9. 8 l 2 ml = ____ ml
 - (1) 82 ml
 - (2) 8002 m²
 - (3) 8020 ml
 - (4) 8200 ml

- 10. Find the value of $(27 + 3 \times 6) (20 \div 2 5)$.
 - (1) 30
 - (2) 40
 - (3)75
 - (4) 175
- 11. At a concert, $\frac{2}{5}$ of the children are boys and the rest are girls. How many children are there if there are 90 girls?
 - (1)30
 - (2)60
 - (3)90
 - (4) 150
- 12. Find the number of cubes in the solid below.



- (1) 9
- (2) 10
- (3) 11
- (4) 12

13.	•	10 tii	itar costs \$75. A drum costs 10 times as much as the guitar. A piano costs mes as much as the drum. How much did Mr Singh pay if he bought a guitar a piano?
	**	(1) (2) (3) (4)	\$825 \$7575 \$8250 \$8325
14.			ratio of the number of males to the number of females in an Art class is 2 : 3. emales decided to drop out of the Art class. The ratio of the number of males

- (1) 12
- (2) 18
- (3) 24
- (4) 27
- A repeated pattern is formed using the characters I, C, S and ... 15. The first 10 characters in the sequence are shown below.



What is the 101th alphabet in this sequence?

- (1) 1
- (2) C
- (3) S
- (4)

End of Booklet A

SINGAPORE CHINESE GIRLS' SCHOOL FIRST SEMESTRAL ASSESSMENT 2019

PRIMARY 5

MATHEMATICS PAPER 1

BOOKLET B

Name:	13 May 2019
Name.	15 May 2015

Class: Primary 5

Mark attained	Max Mark	
	25	
	Mark attained	Mark attained Max Mark 25

15 Questions 25 Marks

Total Time for Booklets A and B: 1 h

INSTRUCTIONS TO CANDIDATES

Do not open this booklet until you are told to do so. Follow all instructions carefully.

Answer all questions.

The use of calculator is NOT allowed.

Booklet B

Questions 16 to 20 carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. (5 marks)

Do not write in this column

16. Write one million, one thousand and one in numerals.

Ans: _____

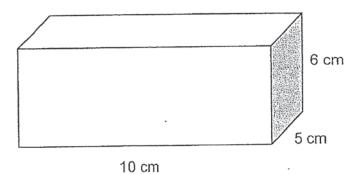
17. Express $\frac{3}{7}$ as a decimal correct to 2 decimal places.

Ans: _____

18. 10 boys shared 4 ℓ of fruit juice. How much fruit juice can each boy get?

Ans: _____ 8

19. Find the volume of the cuboid below.



Do not write in this column

Ans: _____ cm³

20. Express the ratio of 5 g to 1 kg in the simplest form.

Ans: _____

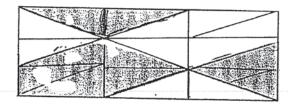
Questions 21 to 30 carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated.

(20 marks)

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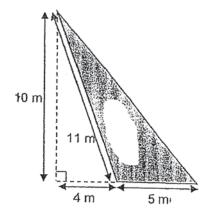
21. The figure below consists of 3 identical rectangles.

What fraction of the figure is shaded?



Ans:

22. What is the area of the shaded triangle below?



Ans: _____m

/	4

23. \$630 is shared between Alicia, Bella and Cassia in the ratio 2 : 1 : 4. How much more money did Cassia receive than Bella?

Do not write in this column

Ans: \$ _____

24. A box weighed 31.04 kg when it had 9 identical balls in it. It weighed 35.2 kg when it had 11 identical balls in it. Find the mass of one identical ball.

Ans: _____ kg

4

25. Jordan had \$280. He spent $\frac{1}{7}$ of it on a birthday gift to his friend and $\frac{1}{2}$ of the remainder on his enrichment fees. How much money did he have left?

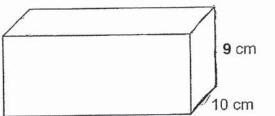
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Ans: \$ _____

26. Prisha, Vicky and Aishah shared 105 pieces of chocolates. The chocolate that Prisha and Aishah had was in the ratio 1:2. The chocolate that Aishah and Vicky had was in the ratio 4:1. How many chocolates did Aishah have?

Ans: ____

27. How many 2 cm cubes can you fit into a tank measuring 27 cm by 10 cm by 9 cm?



27 cm

Do not write in this column

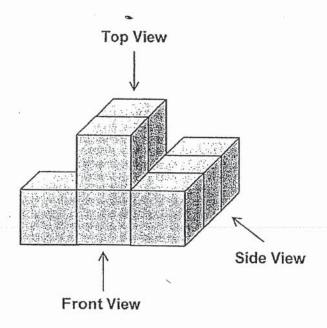
Ans: _____

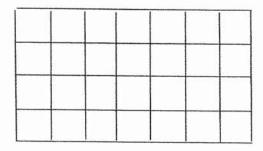
28. Peter and John had 110 oranges altogether. $\frac{3}{5}$ of Peter's oranges is equal to $\frac{1}{2}$ of John's oranges. How many oranges does Peter have?

Ans: _____

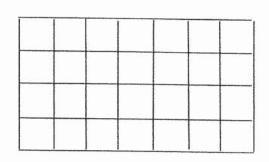
29. Draw the top and side view of the solid below.

Do not write in this column





Top View [1]



Side View [1]

30. Mrs Tan needed to sew a number of dolls for the SC carnival. She sewed 1 doll on the 1st day. She doubled the number she sewed every day. On the 4th day, she finished sewing the number of dolls required. How many dolls did she sew altogether?

Do not write in this column

Ans:	
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SINGAPORE CHINESE GIRLS' SCHOOL FIRST SEMESTRAL ASSESSMENT 2019

PRIMARY 5

MATHEMATICS

PAPER 2

Name	•	
	•	

13 May 2019

Class: Primary 5 SV

	Mark	Max Mark
Paper 2		55

Parent's Signature	

17 Questions 55 Marks

Total Time for Paper 2: 1 h 30 min

INSTRUCTIONS TO CANDIDATES

Do not open this booklet until you are told to do so. Follow all instructions carefully.

Answer all questions.

The use of calculator is allowed.

Danielle had 240 coins. The ratio of the number of 10-cent coins to the number of 20-cent coins to the number of 50-cent coins was 2 : 5 : 1. What is the value of 10-cent coins Danielle had?

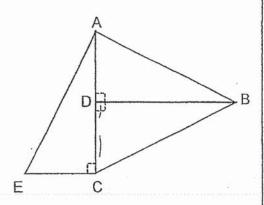
Ans: \$ _____

2. Cindy had some water. She used $\frac{8}{9}$ of it to water the plants and the remaining $\frac{1}{6} \ell$ of the water for cooking. How much water did she have at first?

Ans: ______

3. The figure below is formed by 3 identical triangles. AC is 15 cm. Find the area of the figure.

Do not write in this column



Ans: ____ cm

4. The ratio of Jun Xian's marbles to Wei Kang's marbles is 4:9. Wei Kang had 36 marbles. How many marbles did Wei Kang have to give to Jun Xian so that both of them will have an equal number of marbles?

Ans: _____

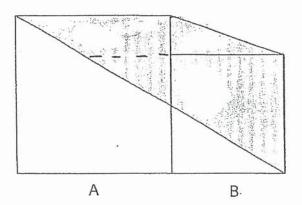
At a bus interchange, some passengers boarded the bus. At the first bus stop, 5. $\frac{2}{5}$ of the passengers alighted from the bus. At stop B, $\frac{3}{4}$ of the remaining passengers alighted from the bus. What fraction of original number of passengers was left on the bus?

Do not write in this column

Jonathan is 11 years old and his elder brother, Ivan, is 17 years old. How many years ago was Ivan three times as old as Jonathan?

7. The area of Square A and Square B are 64 cm² and 36 cm² respectively. Find the shaded area.

Do not write i this column



Ans: [3

The cost of an ice cream is \$3.60. For every 5 ice cream bought, the 6 th one would be free. A teacher wanted to buy an ice cream for each of his students. He paid a total of \$216. How many students did he have?	Do not write this column
Ans:[3] A jug has 1500 m² of water. A cup can hold 120 m² of water. a) What is the maximum number of cups that can be filled completely? b) How much water was left in the jug?	
	would be free. A teacher wanted to buy an ice cream for each of his students. He paid a total of \$216. How many students did he have? Ans:

10. Kenny had some money. He bought 8 cups of water and 2 cups of chocolate milk with $\frac{4}{5}$ of his money. The cost of a cup of chocolate milk is 6 times as much as a cup of water. How many more cups of water can he buy with his remaining money?

Do not write i this column

Ans: _____[3

A factory produced a total of 850 pink and blue hairclips. $\frac{1}{3}$ of the pink hairclips 11. and 100 of the blue hairclips were sold. There was an equal number of pink and blue hairclips left in the end. Express the ratio of the number of pink

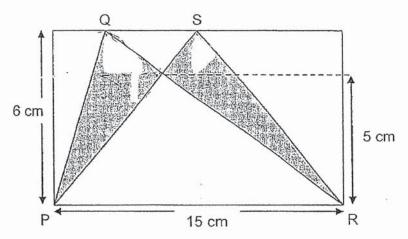
hairclips to blue hairclips at first.

Do not write in this column

Ans:	[4]
MI13.	17

12. In the figure below, PQR and PSR are two overlapping triangles in a rectangle. Find the shaded area.

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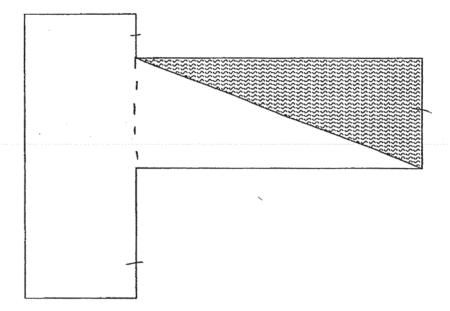


Ans: [4

13. The garden below is made up of 2 identical rectangular plots of land each measuring 80 m by 30 m. There is a triangular pond in the garden.

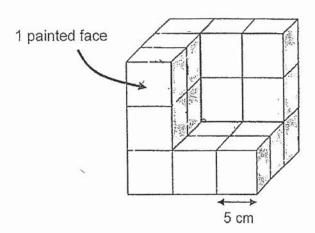
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- a) Find the perimeter of the garden.
- b) Find the area of the garden not covered by the pond.



Anc.	2)	ı	2
Ans:	a)		2

- The side of each cube is 5 cm. The whole figure (including the base) is painted.
- (a) Find the number of painted faces.
- (b) Find the surface area of the figure that is painted.



Ans: (a) _____ [1]

(b) ____[3]

15.	Mr Lee made a total of 100 porcelain bowls and plates. He sold them for \$862 Plates were sold at \$7.90 each while bowls were sold at \$8.90 each. How man bowls did Mr Lee make?	1	Do not write in this column
	Ans:	[4]	

16. Adult and children admission tickets to a concert were sold over Saturday and Sunday. The same number of tickets were sold on both days. The ratio of the number of adult tickets sold to the number of children tickets sold on Saturday was 3:2. The ratio of the number of adult tickets sold to the number of children tickets sold on Sunday was 1:2. The total amount of children tickets sold on both days was 800.

Do not write in this column

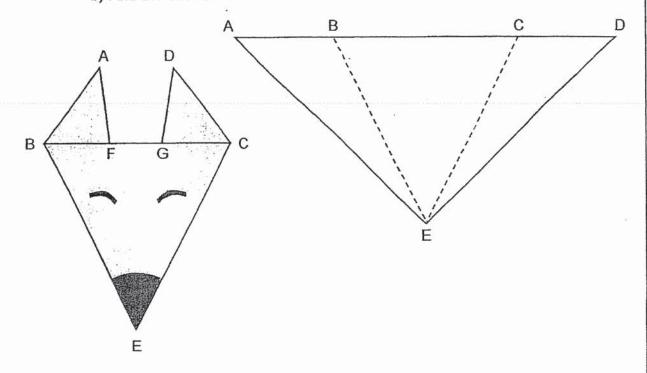
- a) What fraction of the total number of tickets sold on both days are adult tickets?
- b) If an adult ticket cost \$8 and a child ticket cost \$4.50. Find the amount of money collected from the sale of tickets on both days.

Ans:	a)	 [2]
Ans:	a)	 [2]

- Damien made a symmetrical origami fox using a right-angled triangular paper 17. AED. AE = ED = 14 cm and BE = CE. The area of triangle BCE is 2 times that of triangle CDE. He then folded the 2 corners of the triangle to the back and formed the fox below. After folding, $\frac{3}{5}$ of triangle CDE was hidden.

Do not write in this column

- a) What is the ratio of the area of triangle DCG to the area of triangle BCE?
- b) Find the shaded area.



Ans: a)	[2]
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[3] b)

End of Paper 2 ~ Please check your work thoroughly. ~



ANSWER KEY

YEAR : 2019

LEVEL : PRIMARY 5

SCHOOL: SINGAPORE CHINESE GIRLS' SCHOOL PRI

SUBJECT: MATHEMATICS

TERM

: SA 1

PAPER ONE

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

Q16) 1 001 001

Q17) 0.43

Q18) $\frac{4}{10}$

Q19) 300cm³

Q20) 1

Q21) $\frac{1}{2}$

Q22) $\frac{1}{2}$ x 5 x 10 = 25m²

Q23) 2 + 1 + 4 = 7

$$7u \rightarrow 630$$

 $1u \rightarrow 630 \div 7 = 90$
 $4 - 1 = 3$
 $3u \rightarrow 90 \times 3 = 270

Q24)
$$11-9=2$$

2 balls $\Rightarrow 35.2-31.04=4.16$
1 ball $\Rightarrow 4.16 \div 2 = 2.08 \text{kg}$

Q25)
$$6 \div 2 = 3$$

 $7u \rightarrow 280$
 $1u \rightarrow 280 \div 7 = 40$
 $3u \rightarrow 40 \times 3 = 120

Q26) P: A A: V
1: 2(x2) 4: 1
2: 4
P
$$\Rightarrow$$
 2u
A \Rightarrow 4u
V \Rightarrow 1u
2+4+1=7
71 05
11 05 \div 7 = 15
4u \Rightarrow 15'x 4 = 60 chocolates

Q27)
$$27 \div 2 \approx 13$$

 $10 \div 2 = 5$
 $9 \div 2 \approx 4$
 $13 \times 5 \times 4 = 260$ cubes

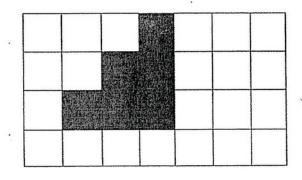
Q28) 1u of J's oranges is 3u of Peter's

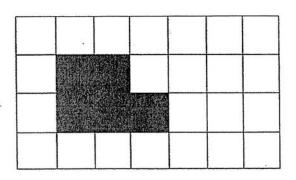
Total no of
$$u \to (3x2) + 5 = 11$$

$$1u \rightarrow 110 \div 11 = 10$$

$$5u \rightarrow 10 \times 5 = 50 \text{ oranges}$$

Q29)





Q30) 1^{st} day $\rightarrow 1$

$$2^{nd} day \rightarrow 1 \times 2 = 2$$

$$3^{rd}$$
 day $\Rightarrow 2 \times 2 = 4$

$$4^{th} day \rightarrow 4 \times 2 = 8$$

Total
$$\rightarrow$$
 1 + 2 + 4 + 8 = 15 dolls

PAPER TWO

Q1) 10cent: 20cent: 50cent

Total
$$u \to 2 + 5 + 1 = 8$$

$$1u \to 240 \div 8 = 30$$

$$2u \rightarrow 30 \times 2 = 60$$

$$60 \times 0.10 = \$6$$

Q2)
$$\frac{1}{9} \rightarrow \frac{1}{6}$$
 litres
 $\frac{9}{9} \rightarrow 9 \times \frac{1}{6} = 1\frac{1}{2}$ litres

Ans: $1\frac{1}{2}$ litres

Q3) B base
$$\Rightarrow 15 \div 2 = 7.5$$

B height $\Rightarrow 15$ cm
B area $\Rightarrow \frac{1}{2} \times 15 \times 7.5 = 56.25$
All are identical $\Rightarrow 56.25 \times 3 = \underline{168.75}$ cm²

Q4) J: W
4:9

$$9u \rightarrow 36$$

 $13u \rightarrow (36 \div 9) \times 13 = 52$
 $52 \div 2 = 26$
 $36 - 26 = 10 \text{ marbles}$

Q5)
$$1u \rightarrow 4$$
 parts
 $5u \rightarrow 4 \times 5 = 20$ parts
 $1^{st} \rightarrow 4 \times 2 = 8$ parts
 2^{nd} stop $\Rightarrow 9$ parts
 1^{st} and 2^{nd} total $\Rightarrow 8 + 9 = 17$ parts
Remaining $\Rightarrow 20 - 17 = 3$
Fraction $\Rightarrow \frac{3}{20}$

Ans: $\frac{3}{20}$ passengers left

Q6) Age difference
$$\rightarrow 17 - 11 = 6$$

 $2u \rightarrow 6$
 $3u \rightarrow (6 \div 2) \times 3 = 9$
 $17 - 9 = 8 \text{ years ago}$

Q7) Side of Sq A
$$\Rightarrow \sqrt{64} = 8$$

Side of Sq B $\Rightarrow \sqrt{36} = 6$
Unshaded tri $\Rightarrow \frac{1}{2} \times 14 \times 8 = 56$
 $(64 + 36) - 56 + (\frac{1}{2} \times 6 \times 2) = \underline{50 \text{cm}}^2$

Q8) 5 ice creams
$$\Rightarrow$$
 3.60 x 5 = 18
1 set \Rightarrow 5 ice creams + 1 free (\$18)
216 ÷ 18 = 12
12 sets \Rightarrow 60 ice creams + 12 free
60 + 12 = 72 students

Q9a)
$$1500 \div 120 = \underline{12 \text{ cups}}$$
 (r5)
Q9b) $12 \times 120 = 1440$

1500 - 1440 = 60ml

Q10)
$$0 \times 2 = 12$$

 $12 + 8 = 20$
 $4u \rightarrow 20$

O11)
$$5u \rightarrow 850 - 100 = 750$$

 $1u \rightarrow 20 \div 4 = 5$ cups of water

1u
$$\rightarrow$$
 750 \div 5 = 150
Blue at first \rightarrow 150 + 150 + 100 = 400
Pink at first \rightarrow 150 x 3 = 450

9:8

Ans: 9:8

Q12)
$$\triangle PQR \Rightarrow \frac{1}{2} \times 15 \times 6 = 45$$

Unshaded $\triangle \Rightarrow \frac{1}{2} \times 15 \times 5 = 37.5$
Shaded area $\Rightarrow 2 \times (45 - 37.5) = 15 \text{cm}^2$

Q13a) Perimeter
$$\rightarrow$$
 (80 x 4) + (30 x 2) = 380 m

Q13b) Not covered
$$\Rightarrow \frac{3}{4} \times 80 \times 30 \times 2 = \underline{3600 \text{m}^2}$$

Q14a) No of faces
$$\Rightarrow$$
 9 x 6 = 54

Q14b) Area of 1 painted face
$$\Rightarrow$$
 5 x 5 = 25
Total area \Rightarrow 25 x 54 = 1350cm²

$$100 \times 7.90 = 790$$

Total diff
$$\rightarrow 862 - 790 = 72$$

Unit diff
$$\rightarrow 8.90 - 7.90 = 1$$

No of bowls
$$\rightarrow$$
 72 x 1 = 72 bowls

Total adult
$$u \rightarrow 9 + 5 = 14u$$

Total $u \rightarrow 15 + 15 = 30$
Fraction $\Rightarrow \frac{14}{30}$

Ans:
$$\frac{14}{30}$$

Q16b) Total children
$$u \rightarrow 6 + 10 = 16$$

 $16u \rightarrow 800$
 $1u \rightarrow 800 \div 16 = 50$
 $14u \rightarrow 50 \times 14 = 700$
Collected $\rightarrow (700 \times 8) + (800 \times 4.50) = 9200

Q17b) of CDE
$$\Rightarrow \frac{1}{4} \times \frac{1}{2} \times 14 \times 14 = 24\frac{1}{2}$$

 $\frac{2}{5}$ of CDE $\Rightarrow \frac{2}{5} \times 24\frac{1}{2} = 9.8$

Shaded area
$$\rightarrow$$
 49 + (9.8 x 2) = $\underline{68.6 \text{cm}^2}$

END

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