SINGAPORE CHINESE GIRLS' SCHOOL

FIRST SEMESTRAL ASSESSMENT 2017

PRIMARY 6

MATHEMATICS PAPER 1

BOOKLET A

Name:

().

Class: Primary 6 SY

		Marks attained	Max Mark
Paper 1	Booklet A		20
	Booklet B		20
Paper 2			60
Total Marks			100

Parent's Signature	10000

15 Questions

20 Marks

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.

You are not allowed to use a calculator

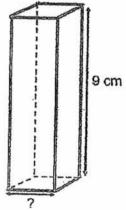
Booklet A

Questions 1 to 16 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.

- Round off 459 490 to the nearest thousands.
 - (1) 450 000
 - (2) 459 000
 - (3) 459 500
 - (4) 460 000
- 2. Which of the following fraction is closest to 3?
 - (1) $2\frac{1}{2}$
 - (2) $2\frac{1}{5}$
 - (3) $3\frac{1}{4}$
 - (4) $3\frac{1}{5}$
- 3. What is the missing number?
 - 6:10=___:15
 - (1) 3
 - (2) 9
 - (3) 11
 - (4) 15

- 4. Express $2\frac{3}{8}$ as a decimal.
 - (1) 2.125
 - (2) 2.3
 - (3) 2.375
 - (4) 2.38
- 5. Simplify 13a + 10 + 2a 4.
 - (1) 15a+6
 - (2) 15a 14
 - (3) 11a+6
 - (4) 11a-14
- 6. Find the average of the following numbers:
 - 12, 15, 18, 3
 - (1) 12
 - (2) 15
 - (3) 16
 - (4) 48
- 7. Ahmad had \$3w. He spent \$15 on a book and donated half of the remainder. How much did he donate?
 - (1) \$(3w-15)
 - (2) \$(3w 7.50)
 - (3) $\$(\frac{3w}{2}-15)$
 - (4) $\$(\frac{3w-15}{2})$

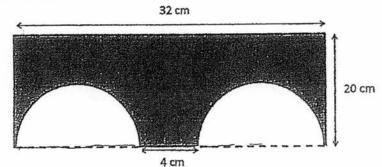
- 8. At a carnival, 40% of the people were adults. There were 240 children. How many people were at the carnival?
 - (1) 400
 - (2) 480
 - (3) 600
 - (4) 1200
- 9. $\frac{3}{8}$ of the cost of a wallet is the same as $\frac{7}{16}$ of the cost of a bag. What is the ratio of the cost of the wallet to the cost of the bag?
 - (1) 1:2
 - (2) 3:7
 - (3) 6.:7
 - (4) 7:6
- 10. The figure shows a cuboid with a square base. The volume of the cuboid is 144 cm³. What is the length of the base?



- (1) 16 cm
- (2) 12 cm
- (3) 8 cm
- (4) 4 cm

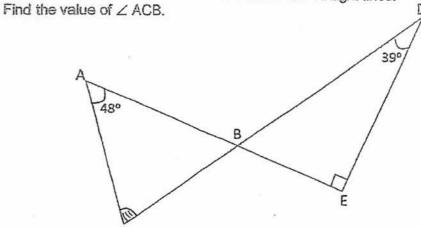
- 11. Elizabeth has $\frac{5}{13}$ as many stamps as Daisy. When Daisy gave 104 stamps to Elizabeth, both of them had the same number of stamps. How many stamps did Elizabeth have at first?
 - (1) 40
 - (2) 65
 - (3) 130
 - (4) 234
- 12. Aishah had 6 kg of flour. She used $\frac{1}{3}$ of it to bake a cake and $\frac{1}{2}$ kg to bake some cookies. How much flour does she have left?
 - (1) 1 kg
 - (2) 2 kg
 - (3) $3\frac{1}{2}$ kg
 - (4) $5\frac{1}{6}$ kg
- 13. The figure below not drawn to scale shows a rectangular piece of paper with two cut out identical semicircles. Calculate the area of the shaded part.

 $(\text{Take }\pi = \frac{22}{7})$

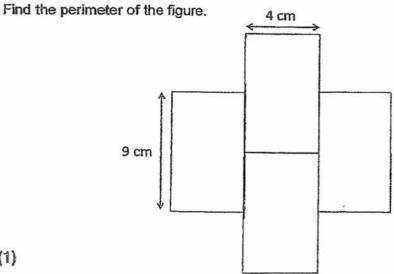


- (1) 120 cm²
- (2) 332 cm²
- (3) 486 cm²
- (4) 596 cm²

14. In the figure below, not drawn to scale, there are two triangles ABC and DBE. ∠ CAB = 48° and ∠ BDE = 39°. AE and CD are straight lines.



- (1) 39°
- (2)51°
- (3) 66°
- (4) 81°
- 15. The figure below, not drawn to scale, is made up of 4 identical rectangles.



- (1)
- (2)
- (3)
- (4)

. End of Booklet A

SINGAPORE CHINESE GIRLS' SCHOOL

FIRST SEMESTRAL ASSESSMENT 2017

PRIMARY 6

MATHEMATICS PAPER 1

BOOKLET B

Name	:	()

Class: Primary 6 SY

Paper 1	Mark attained	Max Mark
Booklet B		20

15 Questions 20 Marks

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.

You are not allowed to use a calculator

Booklet B

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 stated. (10 marks)

Do not write in this column

16. Find the value of $\frac{2}{9} \div \frac{5}{12}$

Ans: _____

17. What is the missing number in the box?

Ans: _____

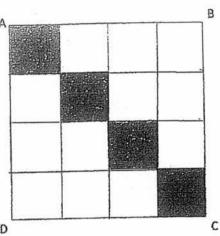
18. Express $\frac{3}{7}$ as a decimal. Leave your answer to the nearest 2 decimal places.

Ans:_____

/3

19. In the figure below, ABCD is a square. The shaded part is made up of 4 identical squares. What percentage of ABCD is shaded?

Do not write in this column



	232
Ans:	%
Allo.	, ,

The table shows the number of audience for a musical each night.
 Find the percentage decrease in number of audience on Sunday.

Saturday	125	
Sunday	100	

	0
\ns:	/

21. Marina paid \$1680 for a laptop after she was given a discount of 20%.
What was the price of the laptop before the discount?

Ans: \$ _____

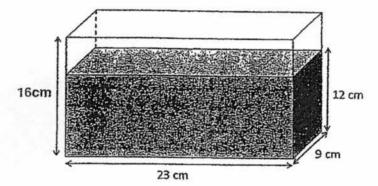
22. The ratio of the number of stamps Peter collected to the number of stamps Siva collected is 4: 5. After Peter gave away 12 stamps, the ratio became 8:15. How many stamps did Peter have at first?

Do not write in this column

Ans: _____

23. What fraction of the container is filled with water?

Give your answer in the simplest form.



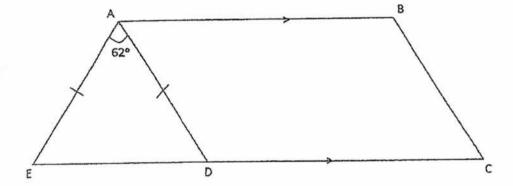
Ans:

24. At a game stall, 2 points are awarded for every blue token collected and 5 points are awarded for every red token collected. Melvin collected an equal number of blue and red tokens. He won a total of 560 points. How many blue tokens did he collect?

Do not write in this column

Ans:

25. In the figure below, ABCD is a parallelogram. AB and EC are straight lines. Find ∠ DAB.



Ans: _____

/2

Questions 26 to 30 carry 2 marks each. Show your working clearly in the space for each question and write your answers in the space provided. For questions which require units, give your answers in the units stated.

Do not write in this column

(10 marks)

26. Cherries were sold at \$0.50 per 100 g. How much does Mr Lim have to pay if he bought 2.5 kg of cherries?

Ans: \$		
1 1113. W		

27. The table shows the prices of a muffin and a cup of ice tea sold at a café.

Item	Price	
Muffin	\$ (r + 2)	
Ice Tea	\$r	

Ramesh went to the café to buy a cup of ice tea and a muffin. If r = 3, how much does he need to pay altogether?

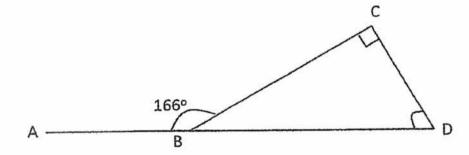
Ans: \$_____

28. A bus can only carry either 20 adults or 45 children. If there are already 8 adults and 11 children, how many more children can the bus carry?

Do not write in this column

Ans: _____

29. In the figure below, ABD is a straight line. Find ∠BDC.



Ans: _____

30. The average of nine numbers is 6. Two numbers are removed. The average of the remaining seven numbers is also 6. The bigger of the 2 numbers removed is three times the smaller number. What is the smaller number?

Do not write in this column

Ans: _____

End of Booklet B



SINGAPORE CHINESE GIRLS' SCHOOL

FIRST SEMESTRAL ASSESSMENT 2017

PRIMARY 6

MATHEMATICS

PAPER 2

Name		1	1
	•		1

Class: Primary 6 SY

	Mark	Max Mark
Paper 2	154	60

Parent's Signature

18 Questions 60 Marks

Total Time for Paper 2: 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.

You are allowed to use the calculator

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

Do not write in this column

1.	Alvin and Daniel spent \$250 altogether. Benjamin and Daniel spent \$130
	altogether. Given that Alvin spent four times as much money as Benjamin,
	how much did Daniel spend?

Ans: \$

2.	In Primary 6A, when 5 girls and 3 boys were absent, there were 32 pupils in
	the class. What percentage of the class was present?

Ans: _______ 9

3. John aims to do the same number of questions for a week from Monday to Sunday. If he decides to take a break on Friday, he will have to do an additional 3 questions each day. How many questions does he have to do altogether? Do not write in this column

Ans:

4. The price of an admission ticket for a movie is \$2y. Children below the age of 10 will be given a 50% discount. Siva brought his wife, two parents and two children of ages 8 and 15 to watch a movie. How much did he have to pay altogether? Leave your answer in terms of y.

Ans: \$ _____

Construct an isosceles triangle ABC where AC = 5 cm and ∠BAC = ∠BCA = 55°.

Do not write in this column

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

Do not write in this column

(50 marks)

6. Farmer Tan harvested some apples, pears and oranges for sale at the market. 1/10 of the fruits were apples. The number of pears was twice the number of oranges. There were 85 more pears than apples. How many fruits were there altogether?

Ans: [3]

7. Beatrice spent \$800 of her monthly salary and saved the rest. In March, she increased her spending by 40% and her savings decreased by 25%. How much is her monthly salary?

Ans : ______ [4]

/7

8. A tank was 40% filled with water. Another 24 \(\ell \) of water was needed to fill the tank to its brim. The length and breadth of the tank were 50 cm and 40 cm respectively. Find the height of the tank.

Do not write in this column

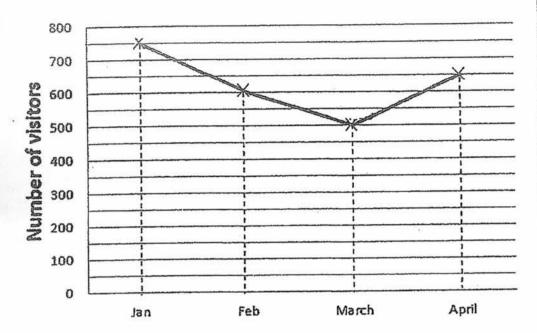
Ans : _____ [3]

9. Mr Teh recorded the earnings by every stall during a school carnival. He wrongly recorded one of the stall's earnings as \$370 instead of \$220. As a result, the average earnings was recorded as \$329 instead of \$324. How many stalls were there at the carnival?

Ans: ______ [3]

 The graph shows the number of visitors to the aquarium in the first 4 months of the year.

Do not write in this column



The aquarium was closed in May for renovation works. It reopened in June and the number of visitors was 60% more than the number of visitors in March. Find the average number of visitors per month from January to June.

Ans:_____[3]

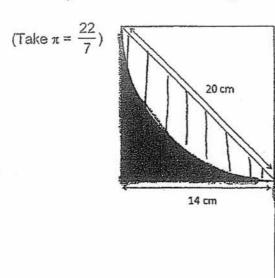
Allan, Bernice, Candice and Derrick shared the cost of a present. The amount Allan paid is $\frac{1}{14}$ of the total amount Bernice and Candice paid. The amount Bernice paid is $\frac{1}{4}$ of the total amount Candice and Derrick paid. The amount Derrick paid is twice the amount Candice paid. Given that Candice paid \$63 more than Allan, how much was the cost of the present?

Do not write in this column

400		[4]
Anc	•	121
Ans	•	

The diagram below, not drawn to scale, shows 2 squares and 2 quadrants.
 Find the perimeter of the shaded figure.

Do not write in this column



.

14 cm

	/
	/
/	1
/	3

13. Mrs Tan bought a 10-kg bag of rice. The family consumed $\frac{3}{5}$ kg of rice daily.

Do not write in this column

- (a) How many days can they have $\frac{3}{5}$ kg of rice daily?
- (b) How much rice was there left?

Ans: (a) [2]

(b) _____[2]



14. Simone prepared blue and red balloons for a party. The ratio of the number of blue to red balloons is 4: 1 After 25% of the blue balloons and 40% of the red balloons burst, Simone had a total of 54 balloons left. How many balloons burst?

Do not write in this column

Ans: ______. [4

15. Some passengers boarded an empty train at Station A. At Station B, $\frac{1}{3}$ of them got off and 60 passengers boarded the train. At Station C, 220 passengers got off and 60 boarded the train. The train now had $\frac{5}{9}$ of the number of passengers when it left Station B.

Do not write in this column

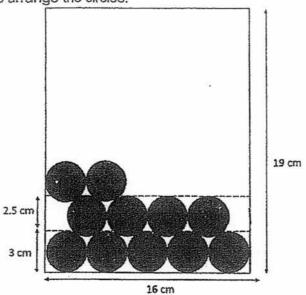
- a) How many passengers were on the train when it left Station C?
- b) How many passengers were on the train when it left Station A?

Ans:	(0)	[2]
AHS.	(a)	12

Ans:	(b)	[3]



• 16. In an arcade game, John had to fit as many circular discs as possible onto a rectangular mat measuring 16 cm by 19 cm. The diagram below shows how he chose to arrange the circles. Do not write in this column



- (a) Given that he continues to arrange the circular discs in this manner, how many similar discs can he fit onto the mat?
- (b) What is the area left on the mat after all the possible circular discs have filled the mat? (Take $\pi = 3.14$)

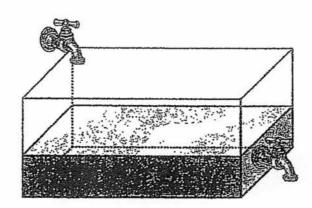
Ans: (a) _____[2]

(b) _____

An empty Agrectangular tank of capacity 25600 cm³ has 2 taps. Water from tap A starts to fill the tank at a rate of 2 t per minute. After 8 minutes, both taps are turned on to fill the tank to the brim. Tap B allows water to flow out from the base of the tank at 0.4 t per minute. Find the total amount of time taken from the start to fill the tank to the brim.

Do not write in this column

 $(1 \ell = 1000 \text{ cm}^3)$



		[5]	ŧ
Ans:		12	ř
MID.	•//	10	ł
			ı

18.	A group of students were at a birthday party. Each person shook hands once
	with everyone else. Ben shook hands with five times as many boys as girls.
	Justina shook hands with seven times as many boys as girls. How many
	children were there at the birthday party?

Do not write in this column

Ans:	r.	4]
		.1

End of Paper 2



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SCHOOL : SINGAPORE CHINESE GIRLS' PRIMARY SCHOOL
SUBJECT : MATHEMATICS (PAPER 1)
TERM : SA1

PAPER 1 SECTION A

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

SECTION B

Q16.
$$\frac{2}{9} \div \frac{5}{12} = \frac{2}{9} \times \frac{12}{5} = \frac{8}{15}$$

Ans: 4+8=12

Q18.
$$\frac{3}{7} = 3 \div 7 = 0.428$$

Ans: 0.43

$$\frac{4}{16} = \frac{1}{4} = 25$$

Ans: 25%

Q20.
$$\frac{25}{125}$$
 X 100% = 20%

Ans: 20%

Ans: \$2100

12:15

4U-12

$$1U - 12 \div 4 = 3$$

Ans: 36 stamps

Fraction
$$\frac{2824}{3092} = \frac{3}{4}$$

Ans: $\frac{3}{4}$

$$560 \div 7 = 80$$

Ans: 80

Q25.
$$(180^{\circ} - 62^{\circ}) \div 2 = 59^{\circ}$$

$$180^{\circ} - 59^{\circ} = 121^{\circ}$$

$$121^{\circ} - 62^{\circ} = 59^{\circ}$$

Ans: 590

$$25 \times 0.50 = 12.50$$

Ans: \$12.50 ·

Q27.
$$Muffin - 3 + 2 = 5$$

$$5 \div 3 = 8$$

Ans: \$8

20:45

4:9

8:18

Ans: 16 children

Q29.
$$180^{\circ} - 166^{\circ} = 14^{\circ}$$

$$90^{0} + 14^{0} = 104^{0}$$

$$180^{\circ} - 104^{\circ} = 76^{\circ}$$

Ans: 760

3:1:4

$$6 \times 7 = 42$$

$$54 - 42 = 12$$

4U - 12

 $1U - 12 \div 4 = 3$

Ans:3

PAPER 2

130 - 40 = 90

Ans: \$90

Q2.
$$32 + 5 + 3 = 40$$

$$\frac{32}{40}$$
 X 100% = 80

Ans: 80%

Per day
$$-3 \times 6 = 18$$

Altogether $-18 \times 6 = 108$
 $108 \div 18 = 126$

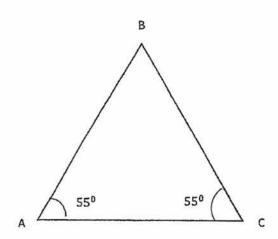
Ans: 126 questions

Q4. 1 ticket = 2y

$$5A = 2y \times 5 = 10y$$

 $C = \frac{2y}{2} = y$
Total = 10y + y = 11y
Ans: \$11y

Q5.



Q7.
$$40\% \text{ spent} - \frac{40}{100} \times 800 = 320$$

$$40000 \div 50 \div 40 = 20$$

$$150 \div 5 = 30$$

Q10.
$$\frac{160}{100}$$
 X 500 = 800

Ans: \$279

Q12.
$$\frac{1}{2} X \pi X d = \frac{1}{2} X \frac{22}{7} X 28 = 44$$

Ans: 92cm

Q13. a)
$$10 \div \frac{3}{5} = 16.67$$
 ≈ 16

Ans: 16 days

b) Left
$$\sim \frac{2}{3} \times \frac{3}{5} = \frac{2}{5}$$

Ans: $\frac{2}{5}$ kg

$$20-5=15$$

 $5-2=3$

$$5 + 2 = 7$$

Ans: 21 balloons.

Q15. a)

When the train left the station A

	1U	1U	10
--	----	----	----

When the train left the station B

60 10 10

10

When the train left the station C

$$2U + 60 = 9p$$

$$2U - 100 = 5P$$

$$18U - 10U = 900 + 300$$

Number of passengers after station C \sim 2U - 100

Ans: 200 passengers

b)

number of passengers after station A ~ 3U

Ans: 450 passengers

Q16. a)
$$19-3=16$$

 $16 \div 2.5 = 6.4 \approx 6$
Number of discs $\sim (3 \times 5) + (3 \times 4) + 5$
 $= 15 \div 12 \div 5 = 32$

b) area of 1 circle ~ 3.14 X 1.5 X.5 = 7.065 7.065 X 32 = 236.08 16 X 19 = 304 304 - 226.08 = 77.92 Ans: 77.92cm²

Q17. $2L = 2000cm^2$ 2000 X 8 = 16000

 $0.4L = 400cm^2$

25600 - 16000 = 9600 2000 - 400 = 1600 9600 ÷ 1600 = 6 6 + 8 = 14 Ans: 14mins

Q18. Ben Justina
B:G:T B:G:T
5:1:6 7:1:8
20:4:24 21:3:24

21 + 4 = 2524 + 1 = 25

Ans: 25 children