AT / WSW / EC / PL

SINGAPORE CHINESE GIRLS' SCHOOL

SECOND SEMESTRAL ASSESSMENT 2018

PRIMARY 5

MATHEMATICS
PAPER 1

BOOKLET A

Name : _____( )

Class : Primary 5 SY/C/G/SE/P

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

Parent'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.
You are not allowed to use a calculator

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)**

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1. In the numeral 6 807 251, which digit is in the ten thousand place?

   (1) 0
   (2) 6
   (3) 7
   (4) 8

2. Which of the following numbers is the smallest?

   (1) 0.098
   (2) 0.908
   (3) 0.089
   (4) 0.809

3. Which letter has a line of symmetry?

E L N S

   (1) E
   (2) L
   (3) N
   (4) S

4. Round 8 324 485 to the nearest thousands.

(1) 8 325 000
(2) 8 324 000
(3) 8 324 500
(4) 8 324 400

5. Which one of the following fractions is greater than $\frac{3}{4}$?

(1) $\frac{1}{2}$
(2) $\frac{2}{3}$
(3) $\frac{5}{6}$
(4) $\frac{7}{12}$

6. Express 152 min in hours and minutes.

(1) 1 h 32 min
(2) 1 h 52 min
(3) 2 h 32 min
(4) 2 h 52 min

7. 40% of a number is 1200. Find the number.

(1) 480
(2) 720
(3) 2000
(4) 3000

8. What is the missing number in _____ : 12 = 35 : 20 ?

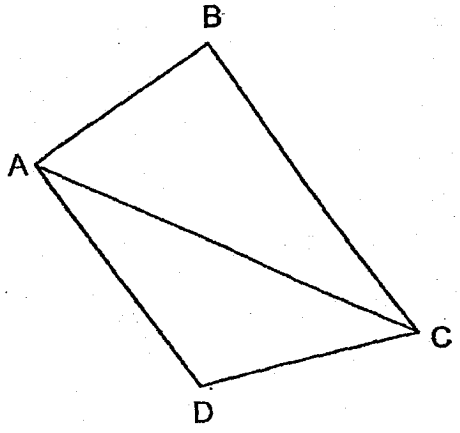
(1) 7

(2) 21

(3) 58

(4) 4

9. In the figure below, which two lines are parallel to each other?



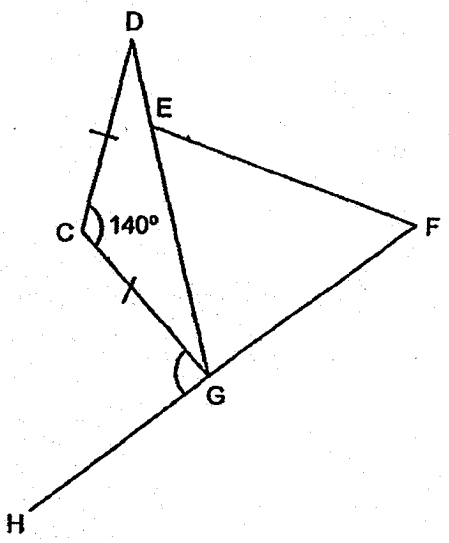
(1) AB and AD

(2) AB and DC

(3) BC and AD

(4) BC and CD

10. The figure below is not drawn to scale. Given that GEF is an equilateral triangle, GC = CD, $\angle$ DCG = 140° and HGF is a straight line, find $\angle$ CGH .



(1) 20°
(2) 60°
(3) 80°
(4) 100°

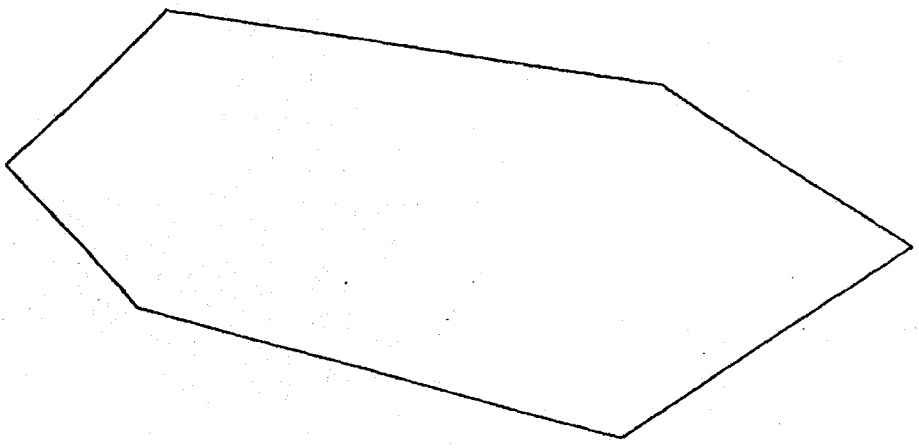
11. Mei Ling had 5 kg of flour. She used $\frac{1}{2}$ of it to make a butter cake and $\frac{1}{4}$ kg to make cookies. How much flour had Mei Ling left?

(1) $1\frac{1}{4}$ kg
(2) $1\frac{7}{8}$ kg
(3) $2\frac{1}{4}$ kg
(4) $4\frac{1}{4}$ kg

12. Jalene swam the length of a pool four times and her timings were 72 secs, 90 secs, 92 secs and 80 secs. What was the average of her fastest and slowest timing?

(1) 81 s
(2) 82 s
(3) 85 s
(4) 86 s

13. The figure below is not drawn to scale.
What is the sum of all the angles in this figure?



(1) 360°
(2) 540°
(3) 720°
(4) 900°

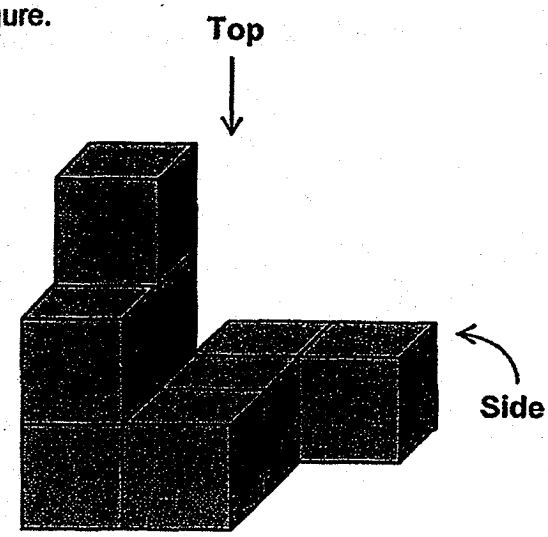
14. Danielle wants to send a 950g parcel to Australia. The airmail fee is charged based on the rates below.

First 200 g	$ 7.00
Per additional 100 g or less	$ 2.00

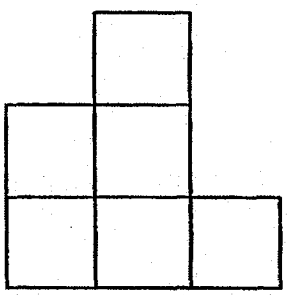
How much is the airmail fee?

(1) $ 18
(2) $ 20
(3) $ 21
(4) $ 23

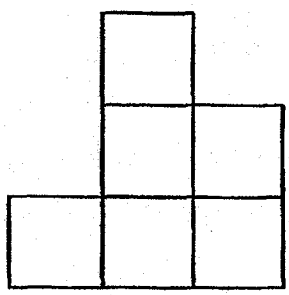
15. Janice drew the 3D figure below as a 2D figure.
Which is the side view?



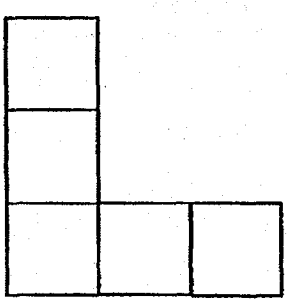
(1)



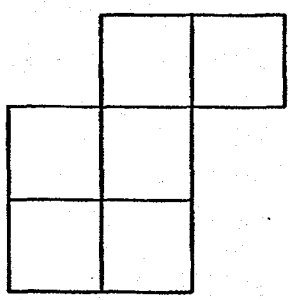
(2)



(3)



(4)



End of Booklet A

AT / WSW / EC / PL

SINGAPORE CHINESE GIRLS' SCHOOL

SECOND SEMESTRAL ASSESSMENT 2018

PRIMARY 5

MATHEMATICS
PAPER 1

BOOKLET B

Name : _____( )

Class : Primary 5 SY/C/G/SE/P

Paper 1	Mark attained	Max Mark
Booklet B		**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.
You are not allowed to use a calculator

Booklet B

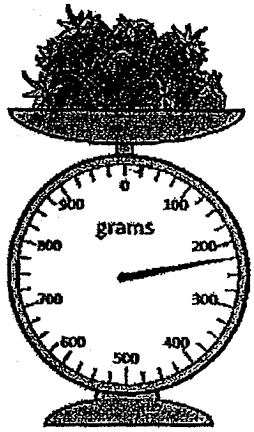
Questions **16** to **20** carry 1 mark each. Write your answers in the spaces provided. For questions which require units, give your answers in the units stated. **(5 marks)**

Do not write this column

16. A bag costs $200 before 7% GST. How much is the GST amount?

Ans: $ _____

17. Some strawberries are placed on the weighing scale as shown below. Find the mass of the strawberries.



Ans: _____ g

18. What is the value of $4 + 8 \div (11 - 7) \times 2$?

Ans: _____

3

19. $\frac{1}{10}$ of the animals in a farm are cows and $\frac{1}{3}$ of the remaining animals are sheep. The rest of the animals are 120 horses. How many animals are there in the farm?

Do not write in this column

Ans: _____

20. Find the sum of the first two common multiples of 3 and 5.

Ans: _____

2

Do not write in this column

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)

21. Express $\frac{7}{8}$ as a decimal. Leave your answer in 2 decimal places.

Ans: _____

22. Lilin spent 25% of her salary on a bag and had $1200 left.
How much did the bag cost?

Ans: $ _____

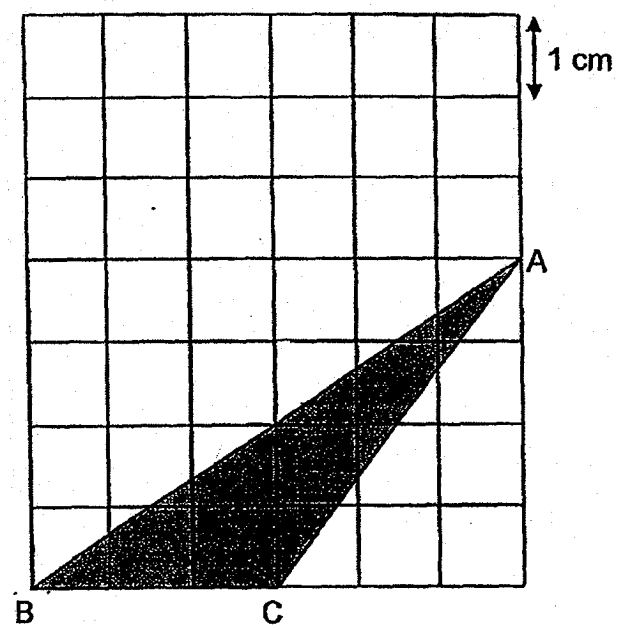
4

23. Summer is 12 years older than her brother. How old will she be when she is 4 times her brother's age?

Do not write in this column

Ans: _____ yrs

24. Find the area of Triangle ABC.



Ans: _____ cm^2

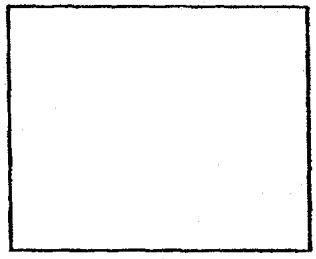
4

25. Lily has 2 ℓ of apple juice while Jim has 3500 mℓ of orange juice.
What is the ratio of Lily's apple juice to Jim's orange juice?
Leave your answer in the simplest form.

Do not write this column

Ans: _____

26. Alex wanted to cut 2 cm by 2 cm squares from a rectangular piece of paper measuring 26 cm by 21 cm. How many squares can he get from the rectangular piece of paper?



Ans: _____

4

27. Baby Abel weighs twice as heavy as Baby Belle. Baby Belle weighs twice as heavy as Baby Carol. Baby Abel weighs 9600g heavier than Baby Carol. How heavy is Baby Abel?

Do not write in this column

Ans: _____ g

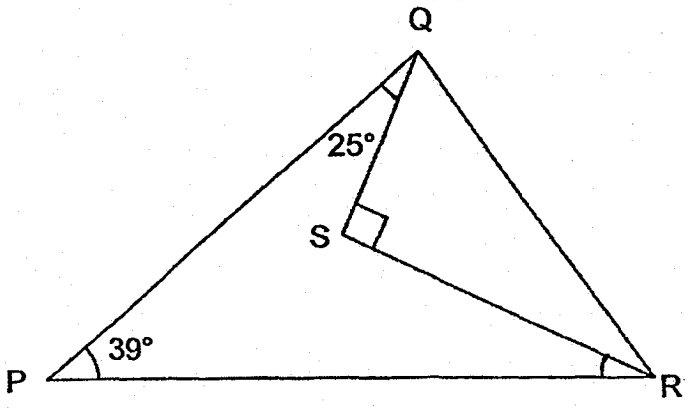
28. A plane departed Singapore at 21 50 on Monday. It landed in Hong Kong at 01 35 the next day. After 2h 40min, it returned its journey back to Singapore. It landed in Singapore at 16 50. What was the total time the plane was in the air?

Ans: ____ h ____ min

4

29. In the figure below, PQR and QSR are triangles. Find ∠SRP.

Do not write in this column

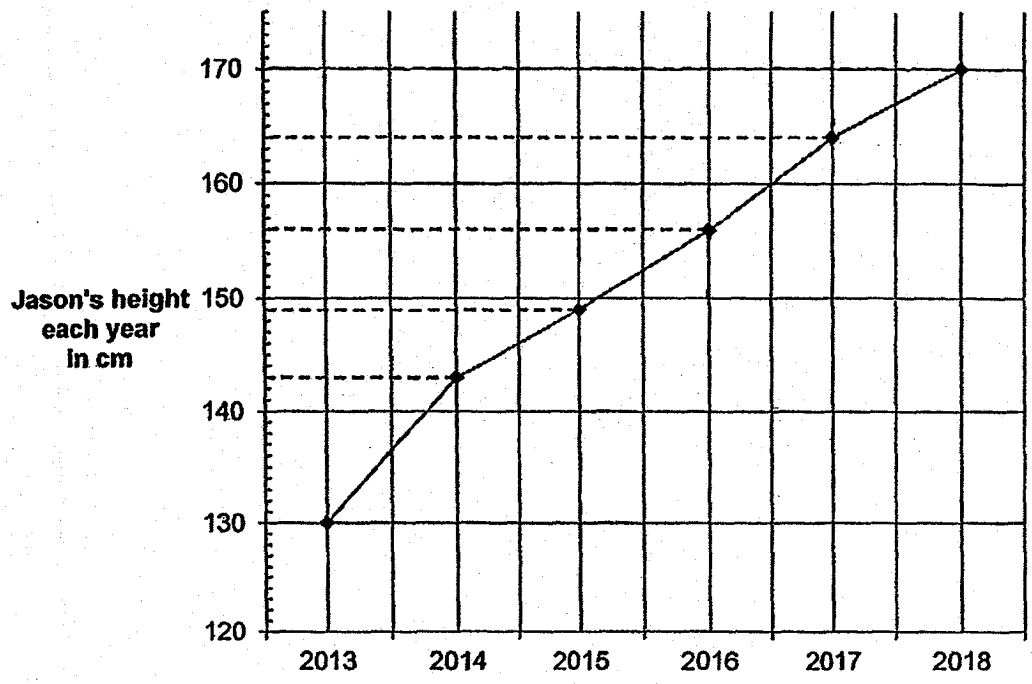


Ans: _____ °

2

30. Jason's height was recorded in the line graph below.

Do not write in this column



(a) Which one year period did Jason grow the most?

(b) What was his height in 2015?

Ans: (a) Between _____ and _____

(b) _____ cm

2

End of Booklet B

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SINGAPORE CHINESE GIRLS' SCHOOL

SECOND SEMESTRAL ASSESSMENT 2018

PRIMARY 5

MATHEMATICS

PAPER 2

Name : _____( )

Class : Primary 5 SY/C/G/SE/P

	Mark	Max Mark	Parent's Signature
Paper 2		**55**	

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.

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 this column

1. At a funfair, 5 children played at a game stall. Their average score was 40 points. The average score of 3 of them was 35. Find the total score of the other 2 children.

Ans: _____

2. Camp A has twice as many participants as Camp B. If 90 participants moved from Camp B to Camp A, there would be 5 times as many participants in Camp A as Camp B. How many participants are there in Camp A?

Ans: _____

4

Do not write in this column

3. $\frac{8}{9}$ of Nadia's cookies is the same number as $\frac{2}{3}$ of Sally's cookies. Express the number of cookies Nadia has as a fraction of the total number of cookies.

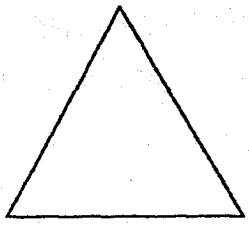
Ans: _____

4. Machine A took 5 hours to produce 4000 toys. Machine B took 8 hours to produce 6240 toys. In 1 hour, how many toys can they produce altogether?

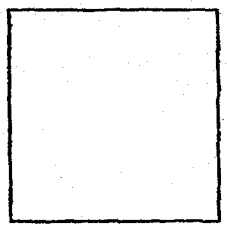
Ans: _____

5. Susy has some squares and triangles in a box. There are 40 squares and triangles in total and 133 corners altogether. How many squares are there in the box?

Do not write this column



Triangle



Square

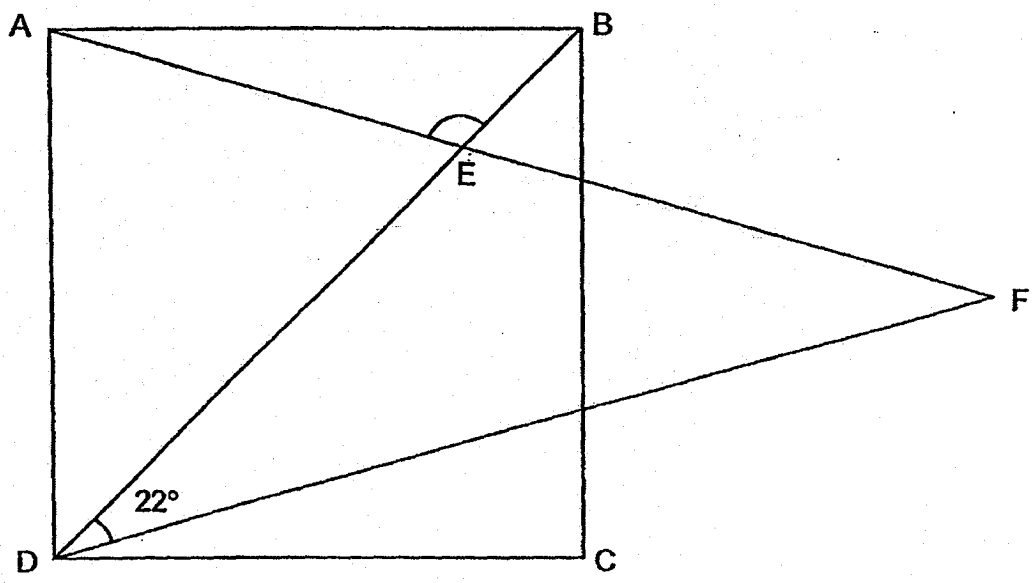
Ans: _____

2

For questions **6** to **17**, show your working clearly in the space below each question and write your answers in the spaces provided. The number of marks awarded is shown in brackets [ ] at the end of each question or part-question. **(50 marks)**

Do not write in this column

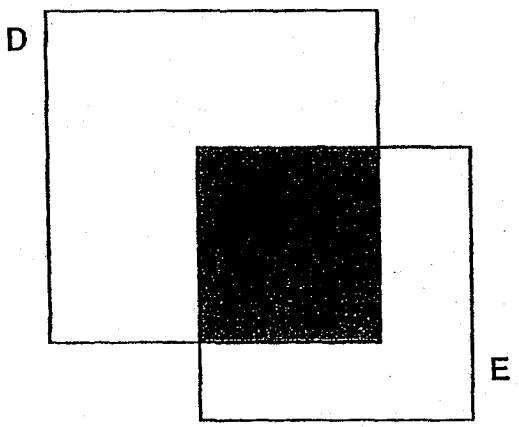
6. The figure below is not drawn to scale. ABCD is a square. AFD is an isosceles triangle. AF, BD and DF are straight lines. $\angle EDF = 22°$. Find $\angle AEB$.



Ans: _____ [3]

Do not write this column

7. The figure below is not drawn to scale. It is made up of two squares D and E overlapping each other. $\frac{3}{7}$ of Square D is shaded. The area of Square E is $\frac{4}{5}$ the area of Square D. Find the ratio of the shaded area to the whole figure.



Ans: _____ [3]

3

8. The number of marbles in Box A was 660 more than that in Box B. When 720 marbles were taken from Box A and placed into Box B, the number of marbles in Box B became five times that of Box A. Find the number of marbles in Box A at first.

Do not write in this column

Ans: _____ [3]

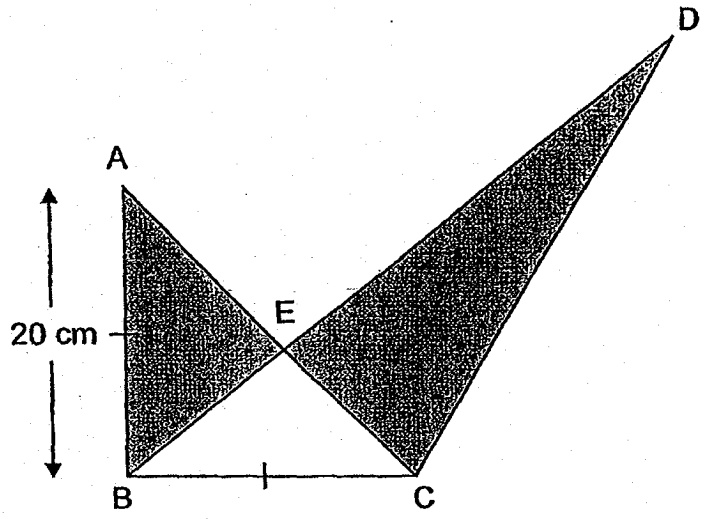
9. Mei Hua bought chocolates and sweets to pack goody bags for her friends. She bought 3 times as many sweets as chocolates and spent a total of $347.70. If each sweet and chocolate costs $1.20 and $2.50 respectively, how many chocolates did she buy?

Ans: _____ [3]

10. The figure below is not drawn to scale.

ABC and BCD are two triangles. The height of the isosceles right-angled triangle ABC is $\frac{2}{3}$ that of triangle BCD. The area of the unshaded triangle is 100 cm^2. Find the area of the whole figure, ABCDE.

Do not write this column



Ans: _____ [3]

3

11. A drink stall made strawberry juice and pear juice in the ratio 9 : 5. When 56 ℓ of strawberry juice and 56 ℓ of pear juice was sold, the ratio of strawberry juice to pear juice became 5 : 2. Find the amount of strawberry juice the drink stall made at first.

Do not write in this column

Ans: _____ [4]

12. Mrs Lim bought the same number of adult and child admission tickets for a show. She spent $306 and $127.50 on adult and child tickets respectively. Each adult ticket costs $10.50 more than each child ticket. How much did she pay for an adult ticket?

Do not write this column

Ans: _____ [4]

13. There were an equal number of adult and children in the bus at first. At the first stop, 10 adults boarded and 8 children alighted the bus. At the next stop, 7 adults and 4 children alighted the bus. In the end, there were 4 times as many adults as children. How many children were on the bus at first?

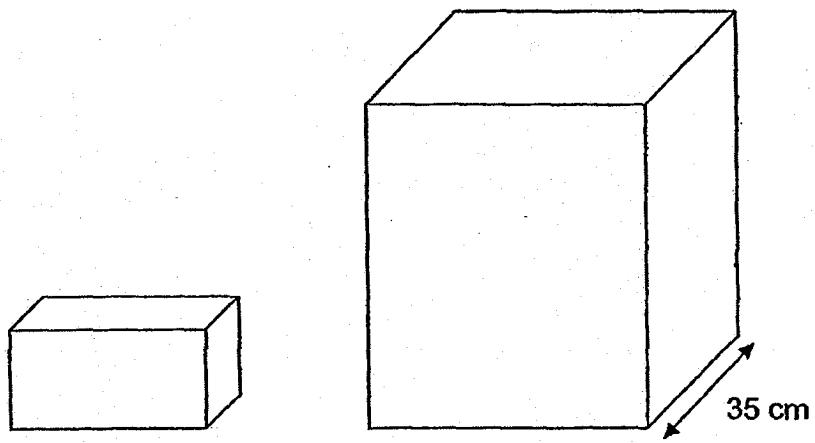
Do not write in this column

Ans: _____ [4]

14. Jonas poured water into Tank A measuring 30 cm by 14 cm by 17.5 cm. The tank was filled to the brim. The water from Tank A was poured into an empty square-based Tank B. Tank B was $\frac{1}{7}$ filled with water.

(a) Find the height of Tank B.

(b) How much more water is needed to fill Tank B to the brim?



Tank A

Tank B

Do not write this column

Ans: (a)_____ [3]

(b)_____ [1]

4

15. In a dance school, $\frac{2}{7}$ of the students and an additional 70 students learn ballet. $\frac{1}{3}$ of the remaining children learn modern dance. The rest of the 210 children learn jazz dance. How many students are there in the dance school?

Do not write in this column

Ans: _____ [5]

16. The table below shows 4 columns, A to D. Study the number pattern below.

Do not write this column

A	B	C	D
21	22	23	24
28	27	26	25
29	30	31	32
36	35	34	33
37	38	39	40

(a) Complete the table for the next row. (1m)

(b) If more rows are added, which column, A, B, C or D, would 1934 be written under?

Ans: (b) _____ [3]

17. Mr Jones gave 30% of his salary to his parents. He spent $350 on food and 20% of the remaining money on transport. He saved the rest of his salary, which was $1120. What percentage of his salary did he spend on food?

Do not write in this column

Ans: _____ [5]

End of Paper 2

~ Please check your work thoroughly. ~

SCHOOL : SINGAPORE CHINESE GIRLS' SCHOOL
LEVEL : PRIMARY 5
SUBJECT : MATH
TERM : 2018 SA2

PAPER 1 BOOKLET A

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10
1	3	1	2	3	3	4	2	3	4

Q11	Q12	Q13	Q14	Q15
3	2	3	4	1

PAPER 1 BOOKLET B

Q16)	$14
Q17)	225g
Q18)	8
Q19)	2p → 120 1p → 6u 6u → 120 1u → 120 ÷ 6 = 20 10u → 20 x 10 = **200**
Q20)	Multiples of 3: 3,6,9,12,15,18, 21, 24, 27, 30 Multiples of 5: 5, 10, 15, 20, 25, 30 **Ans: 45**
Q21)	$\frac{7}{8} = \frac{875}{1000} = 0.875 = \mathbf{0.88}$
Q22)	100% - 25% = 75% 75% = $1200 1% = $1200 ÷ 7 = $16 25% = $16 x 25 = **$400**
Q23)	3u → 12 1u → 4 4u → 4 x 4 = **16**
Q24)	$\frac{1}{2} x\ 3\ x\ 4 = 6\ cm^2$

Q25)	Lily : Tom 2000 : 3500 **4 : 7**
Q26)	26 ÷ 2 = 13 21 ÷ 2 = 10 R 21 13 x 10 = **130**
Q27)	3u → 9600g 1u → 9600 ÷ 3 = 3200 g 4u → 3200 x 4 = **12800 g**
Q28)	16 h 20 min
Q29)	180 – 39 – 25 – 90 = **26**
Q30)	a) 2013 and 2014 b) 149cm

PAPER 2

Q1)	40 x 5 = 200 3 x 35 = 105 200 – 105 = **95**
Q2)	3u → 270 1u → 270 ÷ 3 = 90 A → 90 x 4 = **360**
Q3)	9/21 = 3/7
Q4)	Machine A: 5 hours → 60 x 5 = 300 mins 300 mins → 4000 toys 1min → 4000 ÷ 300 = 13.3 1 hour → 13.3 x 60 = 800 Machine B: 8 hours → 60 x 8 = 480 mins 480 mins → 6240 toys 1 min → 6240 ÷ 480 = 13 1 hour → 13 x 60 = 780 Total number of toys in 1 hour → 780 + 800 = **1580**

Q5)

X3 triangle	X4 square	Total	Check
20 x 3 = 60	20 x 4 = 80	60 + 80 = 140	X
23 x 3 = 69	17 x 4 = 68	68 + 69 = 137	X
24 x 3 = 72	16 x 4 = 64	72 + 64 = 136	X
27 x 3 = 81	13 x 4 = 52	81 + 52 = 133	Correct

Ans : 13 squares

Q6) Angle DAF → $45^0 + 22^0 = 67^0$
Angle AFD → $180^0 - 67^0 - 67^0 = 46^0$
Angle DEF → $180^0 - 22^0 - 45^0 =$ **112^0**

Q7) Square D → 5 x 7 = 35
Square E → 4 x 7 = 28
Square D unshaded → 4 x 5 = 20
Square D shaded → 3 x 5 = 15
Square E unshaded → 28 – 15 = 13
Total Figure → 35 + 13 = 48
Shaded : Total
15 : 48
5 : 16

Q8) 4u → 660 + 60 + 60 = 780
1u → 780 ÷ 14 = 195
1u + 720 → 195 + 720 = **915**

Q9) \$1.20 + \$1.20 + \$1.20 + \$2.50 = \$6.10
\$347.70 ÷ \$6.10 = **57**

Q10) Area of abc→ $\frac{1}{2} \; x \; 20 \; x \; 30 =$ **$300 \; cm^2$**

Q11) 7u → 56 litre
1u → 56 ÷ 7 = 8 litre
27u → 8 x 27 = **216 litre**

Q12) \$306 ÷ \$127.50 = \$178.50
\$178.50 ÷ \$10.50 = 17
\$306 ÷ 17 = **\$18**

Q13) 8u → 4 + 8 + 3 = 15
1u → 15 ÷ 3 = 5
Children at first → 5 + 4 + 8 = **17**

Q14) a) Water → 30 x 14 x 17.5 = 7350 cm^3
7350 ÷ 1125 = 6
1u → 6 cm
7u → 6 cm x 7 = **42 cm**

b) 7350 cm x 6 cm = **4400 cm^2**

Q15) 2u → 210
3u → 315
5p → 315 + 70 = 385
1p → 385 ÷ 5 = 77
7p → 71 x 7 = **539**

Q16) a)

A	B	C	D
44	43	42	41

b) 1934 – 20 = 1914
1914 ÷ 8 = 239 R 1
240 will be under **Column D**

Q17) 4u → $1120
1u → $1120 ÷ 4 = $280
5u → $280 x 5 = $1400
7p → $1400 + $350 = $1750
1p → $1750 ÷ 7 = $250
Salary → $250 x 10 = $2500
Percentage → $\frac{350}{2500}$ x 100% = **14%**