SINGAPORE CHINESE GIRLS' SCHOOL

SECOND SEMESTRAL ASSESSMENT 2019

PRIMARY 5

MATHEMATICS
PAPER 1

BOOKLET A

Name : _____( )

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

22 October 2019

		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

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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. Which one of the following has the digit '1' in the ten thousands place?

   (1) 370 518

   (2) 586 103

   (3) 613 058

   (4) 861 350

2. How many sixths are there in $3\frac{1}{3}$?

   (1) 8

   (2) 10

   (3) 14

   (4) 20

3. Express $\frac{7}{8}$ as a decimal.

   (1) 0.780

   (2) 0.875

   (3) 1.143

   (4) 7.800

4. What fraction of 2 km is 50 m?

   (1) $\frac{1}{4}$

   (2) $\frac{2}{5}$

   (3) $\frac{1}{25}$

   (4) $\frac{1}{40}$

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5. Arrange the following numbers from the largest to the smallest.

4, 0.8, 5.01, 3.9

(1) 4, 5.01, 0.8, 3.9

(2) 0.8, 3.9, 4, 5.01

(3) 5.01, 4, 3.9, 0.8

(4) 0.8, 4, 5.01, 3.9

6. Express $\frac{2}{3} \times \frac{5}{6}$ in simplest form

(1) $\frac{5}{18}$

(2) $\frac{5}{9}$

(3) $\frac{7}{9}$

(4) $1\frac{2}{3}$

7. What is 5% of 600?

(1) 30

(2) 120

(3) 300

(4) 3000

8. There are 8 chocolates and 12 sweets in a container. What is the ratio of the number of chocolates to the total number of chocolates and sweets.

(1) 2 : 3

(2) 2 : 5

(3) 3 : 5

(4) 5 : 2

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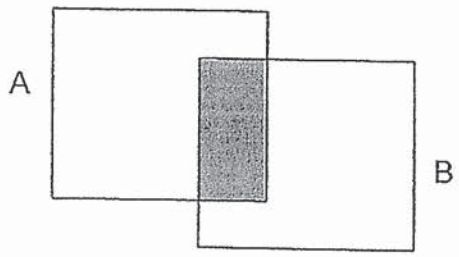
9. Given that 17.25 x 4 = 69, find the missing number below.

_____ x 40 = 69

(1) 1.725
(2) 17.25
(3) 172.5
(4) 1725

10. The figure below shows 2 identical rectangles, A and B. Given that the unshaded area of A is 4 times the shaded area, what is the ratio of the shaded area to the area of the figure?

(1) 1 : 5
(2) 1 : 8
(3) 1 : 9
(4) 1 : 10



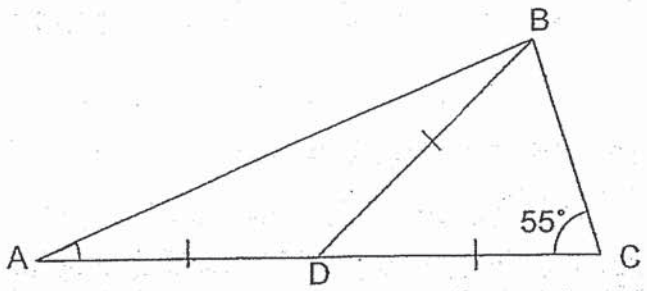
11. The ratio of the number of red apples to the number of green apples was 3:2. After adding another 6 green apples, there were 2 more green than red apples. Find the total number of apples at first.

(1) 20
(2) 26
(3) 40
(4) 46

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12. The figure below is not drawn to scale. AC and BD are straight lines. $\angle BCA$ is 55°. Find $\angle BAC$.



(1) 35°
(2) 55°
(3) 70°
(4) 110°

13. $\frac{5}{8}$ of the class are girls. $\frac{1}{3}$ of the boys do not wear spectacles. What fraction of the class are boys who wear spectacles?

(1) $\frac{1}{8}$
(2) $\frac{1}{4}$
(3) $\frac{5}{12}$
(4) $\frac{5}{24}$

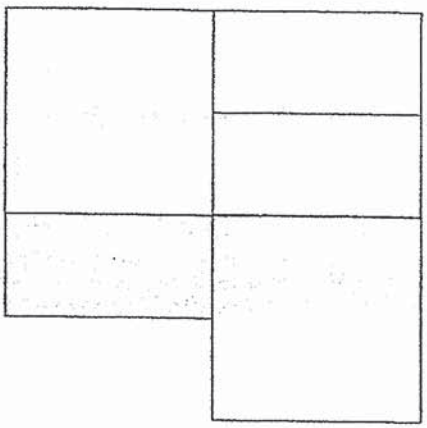
14. $5 \times 5 - 5 + 5 \times 2 = 5 \times$ _____.

(1) 30
(2) 2
(3) 3
(4) 6

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15. The figure below is made up of 2 similar squares, each side 8 cm in length, and 3 similar rectangles. What is the perimeter of the figure?



(1) 48 cm
(2) 56 cm
(3) 60 cm
(4) 64 cm

End of Booklet A

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SINGAPORE CHINESE GIRLS' SCHOOL

SECOND SEMESTRAL ASSESSMENT 2019

PRIMARY 5

MATHEMATICS
PAPER 1

BOOKLET B

Name :_____( )

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

22 October 2019

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
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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. Find the value in the box.

15 : 20 = 12 : ☐

Ans: _____

17. What is the product of 1.405 and 3?

Ans: _____

18. Find the volume of a cuboid with a square base of 5 cm and a height of 7 cm.

Ans: _____ cm^3

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19. Find the average of 7, 0 and 5.

Do not write in this column

Ans: _____

20. What is the difference between 2.3 and 7.25?

Ans: _____

/2

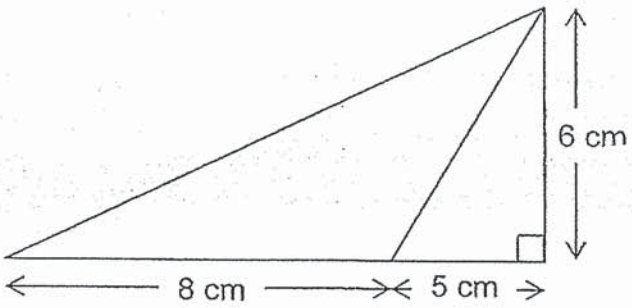
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Questions **21** to **30** carry 2 marks each. Show your working clearly and write your answers in the spaces provided. For questions which require units, give your answers in the units stated. **(20 marks)**

21. Find the area of the shaded triangle below.



Ans: _____ cm^2

22. John paid $120 for a bag after a 20% discount. How much was the discount?

Ans: $_____

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Do not write in this column

23. The length of cube A is 3 times the length of cube B. Find the ratio of the volume of cube A to cube B.

Ans: _____

24. Norman ran 1.05 km before cycling 3.25 km for his morning exercise routine. What is the total distance covered by Norman? Express your answer in km and m.

Ans: _____km _____m

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25. A rope 8 m long is cut into 6 equal pieces. What is the length of each piece? Give your answer in the simplest form.

Ans: _____ m

---

26. Observe the number pattern below.

Ans: _____

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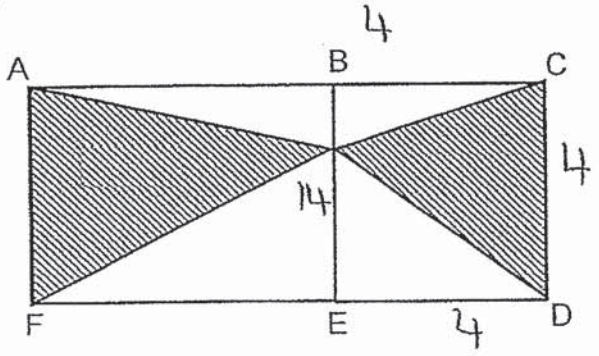
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27. The ratio of the number of apples to the number of oranges to the number of pears is 6 : 2 : 9. There are 87 more pears than apples. How many oranges are there?

Do not write i this column

Ans: _____

28. The figure below is made up of a rectangle ABEF and a square BCDE. The area of rectangle is 48 cm^2 and area of the square is 16 cm^2. What is the total area of shaded parts in the figure?



Ans: _____ cm^2

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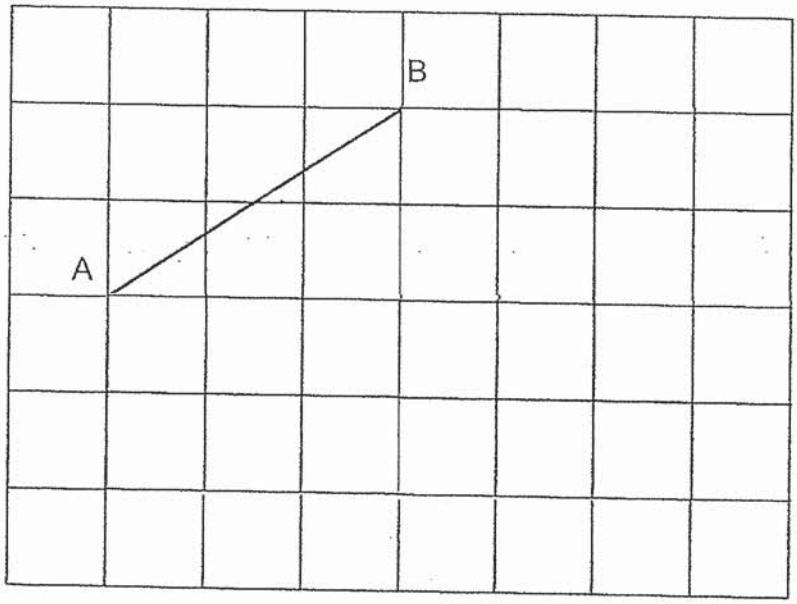
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29. $\frac{2}{3}$ of Sue's weight is the same as $\frac{3}{5}$ of Diane's weight. What is the ratio of Sue's weight to Diane's weight?

Do not write in this column

Ans: _____

30. Draw and label a right-angled isosceles triangle ABC, such that AB = BC, in the grid below.



4

End of Booklet B

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SINGAPORE CHINESE GIRLS' SCHOOL

SECOND SEMESTRAL ASSESSMENT 2019

PRIMARY 5

MATHEMATICS

PAPER 2

Name : _____( )

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

22 October 2019

	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

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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. For a fundraising event, Elicia packed 2.7kg of beans into bags of 300g. Each bag of beans is sold for $1.60. How much could Elicia collect if she sold all the bags of beans?

Ans: $_____

2. The average height of a group of 4 girls is 125 cm. When Jia Ming and Cheryl joined the group, the average height increased by 6 cm. What is Jia Ming and Cheryl's total height?

Ans: _____cm

4

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Do not write this column

3. There were 80 children and 4 times as many women at the park. There were 280 more men than women. What percentage of the people at the park were men?

Ans: _____ %

4. A flight of staircase has 25 steps and is 4 m in height. Nathan walked up the staircase and covered 15 steps. What was the height of the flight of stairs he covered?

Ans: _____ m

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5. The carpark charges of ABC Carpark are shown below. Mr Tan parked his car at the carpark from 1.35 pm to 5 pm. How much did he pay for his parking?

1st hour, part thereof	$2.20
Subsequent 30 minutes and part thereof	$1.00

Ans: $_____

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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. **(45 marks)**

6. Matilda is 3 years older than David. In 7 years' time, their total age will be 35. How old is David now?

Ans: _____ [3]

7. Jane had $3\frac{3}{4}$ kg of sugar. She used $\frac{2}{5}$ of it to make some brownies and $\frac{1}{2}$ kg of it to bake a cake. How much sugar had she left?

Ans: _____ [3]

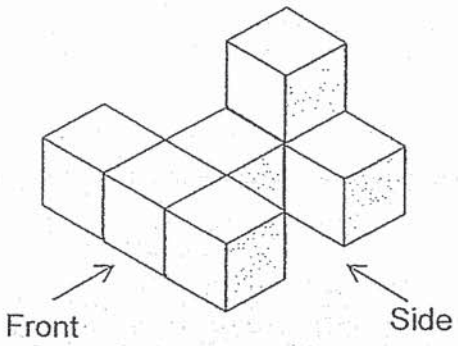
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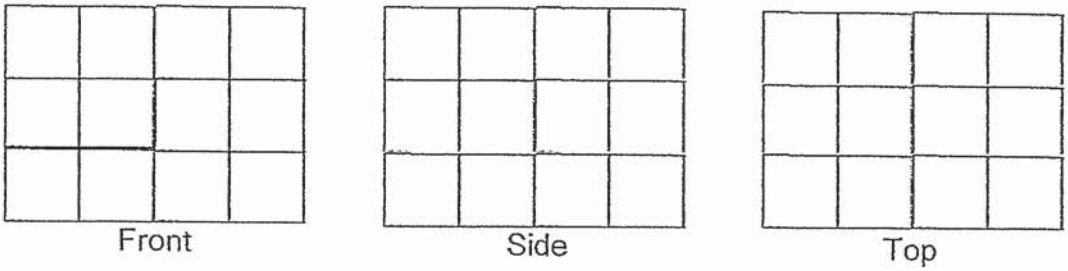
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8. The figure below consists of 7 identical cubes. Draw the front, side and top view of the figure below. [3 marks]





9. Ezekiel was reading a book. He read $\frac{1}{6}$ of it on Monday and $\frac{1}{3}$ of the remainder on Tuesday. There were 80 pages left. How many pages were there in the book?

Ans: _____ [3]

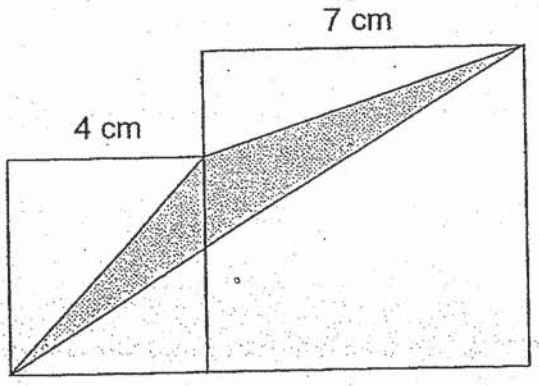
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10. The figure below is made up of 2 squares of length 4 cm and 7 cm. Find the area of the shaded triangle.



Ans: _____ [3]

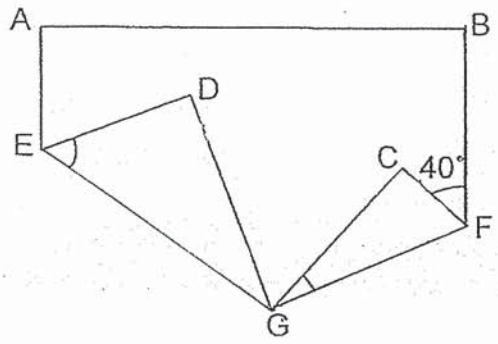
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11. A rectangular piece of paper, ABCD, is folded at points E,F, and G. Given that ∠DGE is twice of ∠CGF, find
(a) ∠CGF and
(b) ∠DEG.

Do not write in this column



Ans: (a)_____ [2]

(b)_____ [2]

4

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12. Braydon wanted to give each of his friends equal number of stickers for his birthday. If he gives each friend 9 stickers, he will be short of 69 stickers. If he gives each friend 4 stickers, there will be 46 stickers left. How many stickers can Braydon actually give to each friend such that he has no remaining stickers left?

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Ans: _____ [4]

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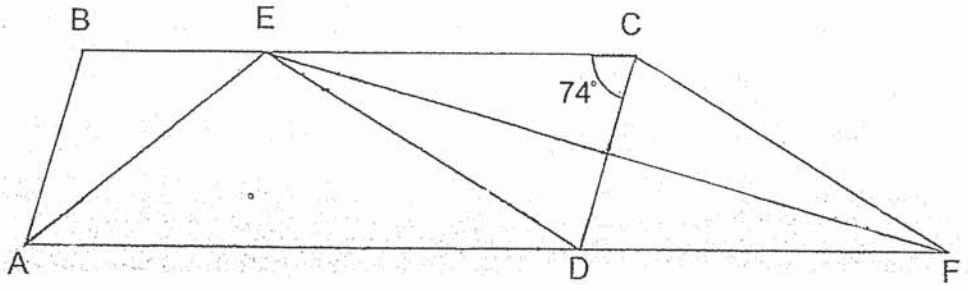
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13. The figure below, not drawn to scale, is made up of a parallelogram, ABCD and a rhombus, ECFD. AE is equal to DE and angle DCE = 74°. Find

(a) ∠BAE and

(b) ∠AEF.

Do not write in this column



Ans: (a)_____ [2]

(b)_____ [2]

4

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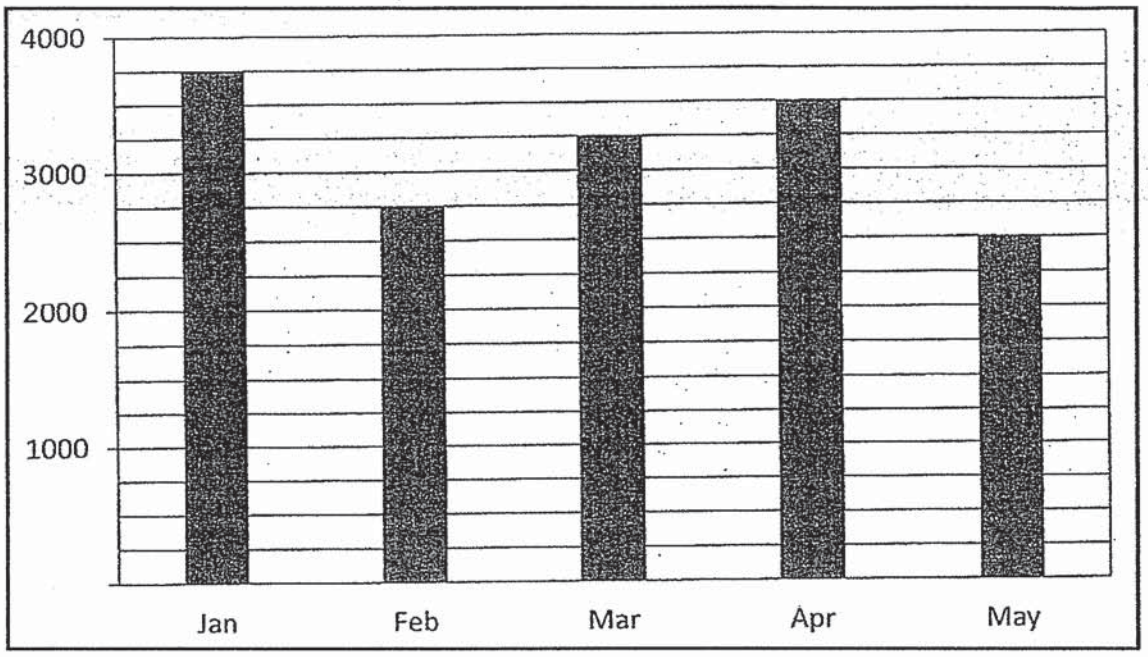
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14. The graph below shows the earnings that an apparel store made from January to May.

(a) What was the total earnings from January to May?

(b) How much money must be earned in June to have an average earning of $3200 from January to June?



Ans: (a) _____ [2]

(b) _____ [2]

4

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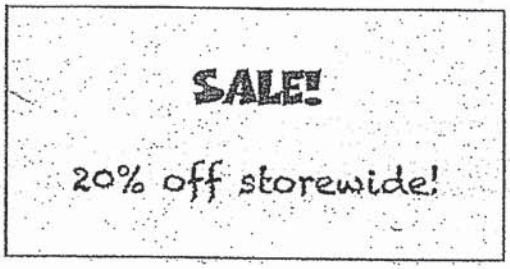
15. A dress costs $68 while a pair of shoes costs $60 at Store A. Mrs Chan bought the 2 items from Store A at a 20% discount. Both items are sold at Store B at the same prices but offering a different discount. Mrs Wong bought the exact dress and pair of shoes from Store B.

(a) How much discount did Mrs Chan get for buying the pair of shoes and the dress at Store A?

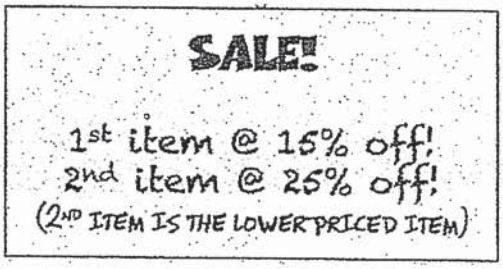
(b) Who paid less?

(c) How much less?

Do not write in this column



Store A



Store B

Ans: (a)_____[2]

(b)_____[1]

(c)_____[2]

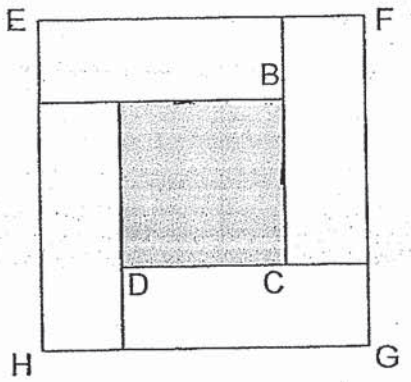
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16. In the figure below, 4 identical rectangles were placed around square ABCD to form a larger square, EFGH. The area of one rectangle is 12 cm^2, and the area of ABCD is $\frac{1}{4}$ of EFGH. Find the length of one rectangle.



Ans: _____ [5]

5

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17. A food stall sells hotdogs at $5.90 each and burgers at $11.90 each. Each customer can choose to add $3 for a meal with fries and a drink. The stall sold $\frac{7}{9}$ as many hotdogs as burgers. 75% of the orders were in a meal. He earned a total of $4610. How many orders did the food stall serve?

Do not write in this column

Ans: _____ [4]

End of Paper 2

~ Please check your work thoroughly. ~

4

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ANSWER KEY

YEAR	:	2019
LEVEL	:	PRIMARY 5
SCHOOL	:	SINGAPORE CHINESE GIRLS' SCHOOL
SUBJECT	:	MATHEMATICS
TERM	:	SA2

PAPER 1 : BOOKLET A

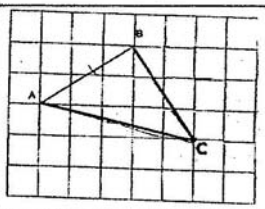
Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8
3	4	2	4	3	2	1	2
Q9	Q10	Q11	Q12	Q13	Q14	Q15	
1	3	1	1	2	4	4	

PAPER 1 : BOOKLET B

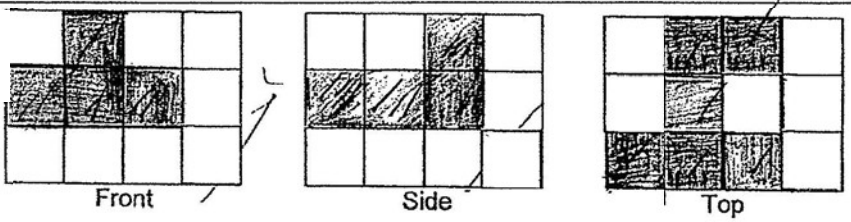
Q16	16
Q17	1.405 x 3 = 4.215
Q18	Base → 5 x 5 = 25cm² Volume → 25 x 7 = 175cm³
Q19	7 + 0 + 5 = 12 12 ÷ 3 = 4
Q20	7.25 – 2.3 = 4.95
Q21	$\frac{1}{2} \times 8 \times 6 = 24cm^2$
Q22	80% → $120 20% → $120 ÷ 4 = $30
Q23	A : B → 3 x 3 x 3 : 1 Ans : 27 : 1
Q24	1.05 + 3.25 = 4.3km 4.3km → 4 km 300m
Q25	$8 \div 6 = \frac{48}{6} \times \frac{1}{6} = \frac{48}{36}$ $\frac{48}{36} = 1\frac{1}{3}$ m
Q26	6
Q27	A : O : P = 6 : 2 : 9 → 87 → 87 ÷ 3 = 29 29 x 2 = 58
Q28	Length of Square BCDE → $\sqrt{16}$ = 4cm Length of FE → 48 ÷ 4 = 12cm Total shaded → $\frac{1}{2}$ x (12 + 4) x 4 = 32cm²
Q29	S : D → $\frac{2}{3} : \frac{3}{5} \rightarrow \frac{6}{9} : \frac{6}{10}$ Ans → 9 : 10

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Q30	

PAPER 2

Q1	No of bags → $\frac{2700g}{300g} = 9$ Total → \$1.60 x 9 = \$14.40
Q2	Total of 4 → 125cm x 4 = 500cm New average → 125cm + 6cm = 131cm Total of 6 → 131cm x 6 = 786cm Jia Ming & Cheryl → 786cm – 500cm = 286cm
Q3	Women → 80 x 4 = 320 Men → 320 + 280 = 600 Total → 80 + 320 + 600 = 1000 % → $\frac{600}{1000}$ = 60%
Q4	25 steps → 4m 1 steps → $\frac{4m}{25}$ 15 steps → $\frac{4m}{25} \times 15 = 2\frac{2}{5}m$
Q5	First 1h | 2h 25min 1.35pm 2.35pm 5pm Total → \$2.20 + \$1 x 5 = \$7.20
Q6	M | | 3years D | | 2u → 35yrs – 3 yrs = 32 yrs 1u → 32 yrs ÷ 2 = 16 yrs David now → 16 yrs – 7 yrs = 9 yrs
Q7	Brownies → $\frac{2}{5} \times 3\frac{3}{4} = 1\frac{1}{2}$kg Left → $3\frac{3}{4} - 1\frac{1}{2} - \frac{1}{2} = 1\frac{3}{4}$kg
(	
Q9	Remainder → $1 - \frac{1}{6} = \frac{5}{6}$ Left → $\frac{2}{3} \times \frac{5}{6} = \frac{5}{9}$ $\frac{5}{9}$ → 80 $\frac{1}{9}$ → 80 ÷ 5 = 16 $\frac{9}{9}$ → 16 x 9 = 144

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Q10	Total area of squares → 4 x 4 + 7 x 7 = 65cm² Unshaded triangles → $[\frac{1}{2}\times4\times4] + [\frac{1}{2}\times11\times7] + [\frac{1}{2}\times3\times7] = 57cm^2$ Shaded area → 65cm² – 57cm² = 8cm²
Q11	<CFG → (180 – 40) ÷ 2 = 70 (a) <CGF → 90 – 70 = 20 <DGE → 20 x 2 = 40 (b) <DEG → 90 – 40 = 50
Q12	No of friends → $\frac{46+69}{9+4} = \frac{115}{5} = 23$ No of stickers → 23 x 4 + 46 = 138 Each → 138 ÷ 23 = 6
Q13	<EDC = 74 <EDA → 180 – 74 -74 = 32 <EAD → 32 <BAD → 74 Ans (a) → <BAE → 74 – 32 = 42 <CEF → $\frac{180-74-74}{2} = 16$ Ans (b) → <AEF → 180 – 32 – 16 = 132
Q14	a) Total → $3750 + $2750 + $3250 + $3500 + $2500 = $15750 New total → $3200 x 6 = $19200 b) June → $19200 – $15750 = $3450
Q15	Total of dress and shoes → $68 + $60 = $128 a) Mrs Chan's discount → $\frac{20}{100}$ x $128 = $25.60 Mrs Wong's discount → $\frac{15}{100}$ x $68 + $\frac{25}{100}$ x $60 = $25.20 b) Mrs Chan c) Diff → $25.60 – $25.20 = $0.40
Q16	Square : 4 rectangles : Total(EFGH) → 1 : 3 : 4 3u → 12 x 4 = 48 1u → 48 ÷ 3 = 16 4u → 16 x 4 = 64 Length AB → $\sqrt{16} = 4cm$ Length EF → $\sqrt{64} = 8cm$ eadth of rectangle → (8 – 4) ÷ 2 = 2cm ngth of rectangle → 12 ÷ 2 = 6cm
Q17	H : B : Total → 7 : 9 : 16 No of meals in a set → $\frac{75}{10}$ x 16 = 12 1set → $5.90 x 7 + $11.90 x 9 + $3 x 12 = = $184.40 No of sets → $4610 ÷ $184.40 = 25 Total order → 16 x 25 = 400

3
END.

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