AT / SL / KYS / TMY / CHIA

SINGAPORE CHINESE GIRLS' SCHOOL

FIRST SEMESTRAL ASSESSMENT 2017

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.
The use of calculator is NOT allowed.

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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. Four million, five hundred and five thousand and eighty-three written in numerals is _____.

   (1) 4 505 038
   (2) 4 505 083
   (3) 4 550 038
   (4) 4 550 083

2. 800 904 is _____ more than 780 904.

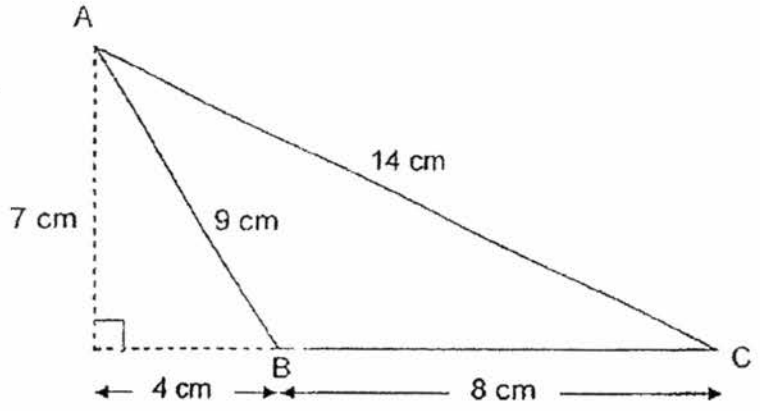
   (1) 200
   (2) 2000
   (3) 20 000
   (4) 200 000

3. Express $412 + \frac{5}{10} + \frac{4}{1000}$ as a decimal.

   (1) 412.9
   (2) 412.54
   (3) 412.054
   (4) 412.504

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4. What is the area of triangle ABC?



(1) 28 cm^2

(2) 36 cm^2

(3) 42 cm^2

(4) 54 cm^2

5. The height of a classroom door is approximately _____.

(1) 23 cm

(2) 2.3 m

(3) 23 m

(4) 2.3 km

6. What is the missing number in the box?

$$\frac{16}{24} = \frac{\square}{6}$$

(1) 8

(2) 2

(3) 3

(4) 4

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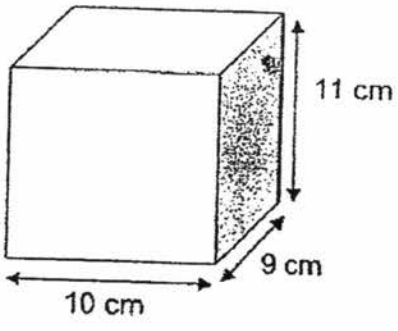
7. 9 : 3 = 108 : _____

(1) 9
(2) 12
(3) 36
(4) 144

8. Round 57 495 to the nearest thousands.

(1) 57 000
(2) 57 400
(3) 57 500
(4) 58 000

9. Find the volume of the rectangular box shown below.



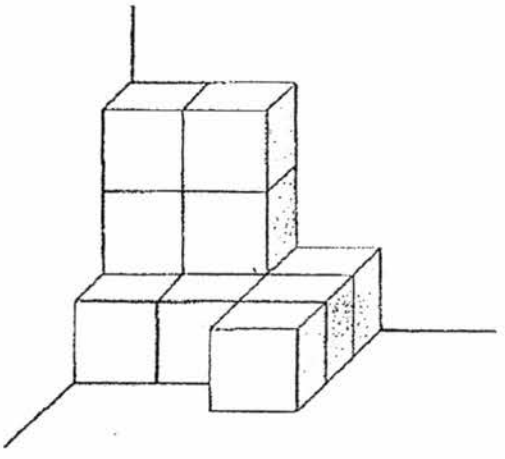
(1) 90 cm^3
(2) 99 cm^3
(3) 110 cm^3
(4) 990 cm^3

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10. There are _____ quarters in $12\frac{1}{2}$.

(1) 14
(2) 25
(3) 48
(4) 50

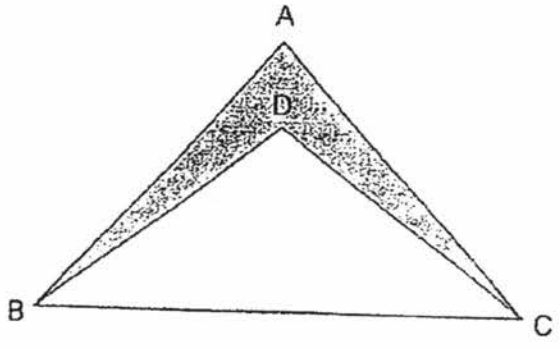
11. The solid below is made up of 1-cm cubes.
How many more 1-cm cubes are needed to form a large cube of volume 27 cm^3 ?



(1) 9
(2) 11
(3) 16
(4) 27

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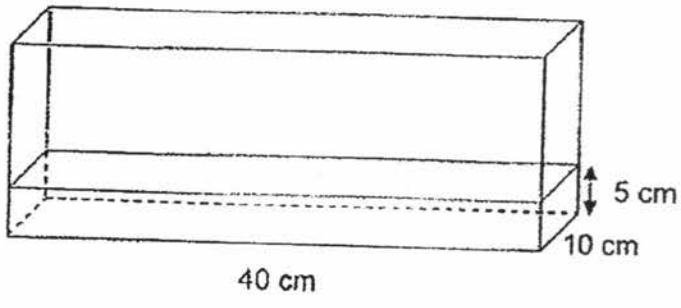
12. In the figure shown below, the area of triangle DBC is $\frac{4}{7}$ of the area of triangle ABC. What is the ratio of the shaded area to the area of triangle ABC?



(1) 3 : 7
(2) 4 : 7
(3) 3 : 11
(4) 4 : 11

13. A container is filled with water to a depth of 5 cm. Lyn pours another 6 ℓ of water into the container. How much water is in the container now?

(1) 2000 cm^3
(2) 2006 cm^3
(3) 4000 cm^3
(4) 8000 cm^3

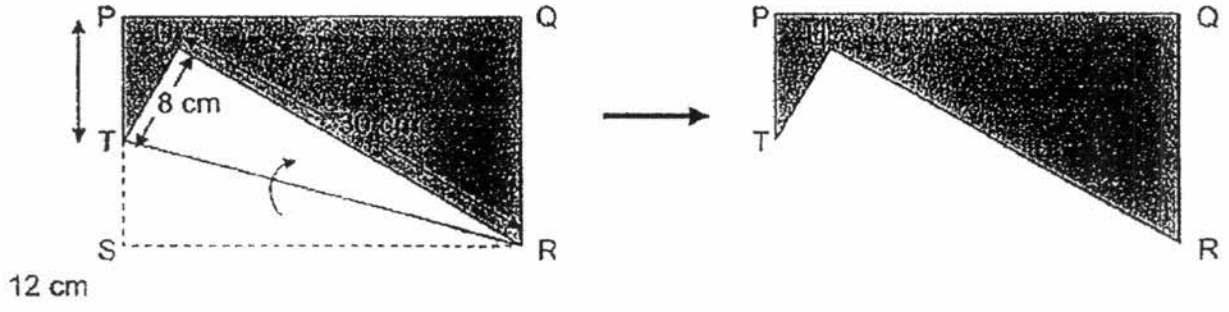


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14. Melody and Sue baked some muffins. Melody baked $\frac{3}{8}$ of the total number of muffins. Melody baked 150 muffins. How many muffins did they bake altogether?

(1) 240
(2) 400
(3) 600
(4) 1200

15. PQRS is a rectangular piece of paper. The paper is folded along line TR. Find the area of the shaded figure PTURQ.



(1) 120 cm²
(2) 360 cm²
(3) 480 cm²
(4) 600 cm²

End of Booklet A

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SINGAPORE CHINESE GIRLS' SCHOOL

FIRST SEMESTRAL ASSESSMENT 2017

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.
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The use of calculator is NOT allowed.

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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)**

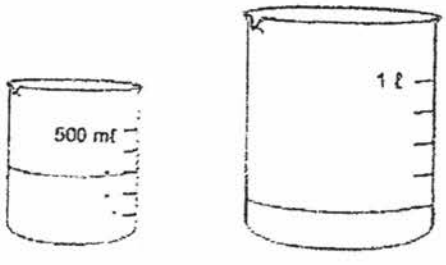
Do not write in this column

16. What is the largest odd number that can be formed with the digits shown in the box? Use each digit once only.

5, 8, 4, 0, 3

Ans: _____

17. Find the ratio of the volume of water in beaker A to the volume of water in beaker B.



Beaker A Beaker B

Ans: _____ 2

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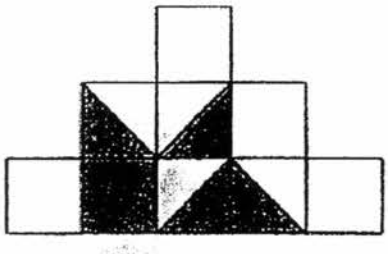
18. Find the value of $66 - 60 \div (10 - 8)$.

Ans: _____

19. Find the value of $\frac{5}{8} \times \frac{2}{3}$. Express the answer in its simplest form.

Ans: _____

20. Express the number of shaded parts as a fraction of the figure.



Ans: _____

3

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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)

Do not write this column

21. 20 children shared 8 pizzas equally. How much pizza did each child get? Express your answer in the simplest form.

Ans: _____

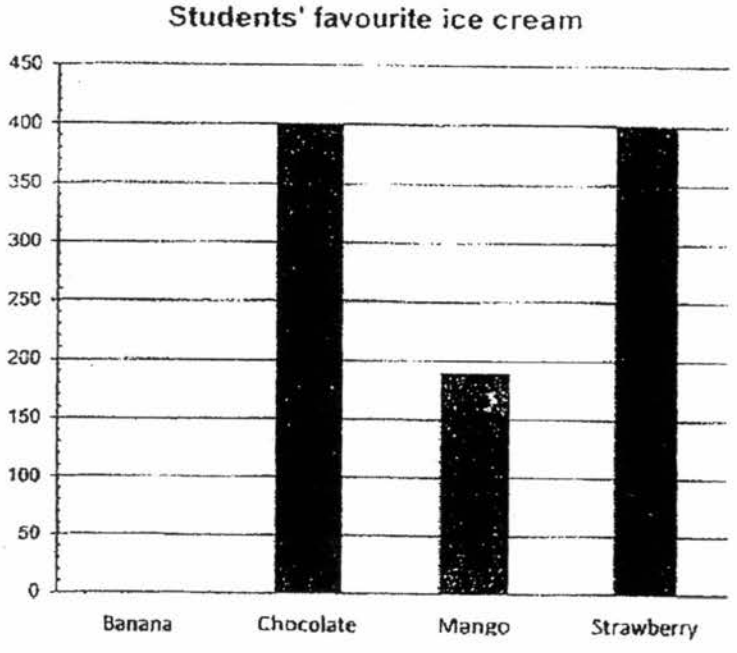
22. Delima cut a 1-metre ribbon into 3 pieces, A, B and C. Ribbon A is 60 cm and Ribbon B is 10 cm. Find the ratio of the length of ribbon A to ribbon B to ribbon C. Give your answer in the simplest form.

Ans: _____ 4

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Do not write in this column

23. Study the graph below. The bar chart below shows Sunshine School pupils' favourite ice cream flavour. $\frac{1}{4}$ of the students like banana flavour. Draw the missing bar graph for banana flavour.



24. A container is $\frac{11}{12}$ filled with flour. When 6 kg of flour is used, it will be $\frac{3}{4}$ full. What is the capacity of the container?

Ans: _____ kg

4

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25. Olivia had a 3 kg cake. She gave $\frac{1}{12}$ of it to his sister, $\frac{1}{2}$ kg to his mother and ate the rest. How much cake did she have left?

Ans: _____ kg

26. $\frac{2}{3}$ of a class are girls. $\frac{1}{4}$ of the girls have short hair.

What fraction of the class are girls with short hair?

Ans: _____

4

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27. The height of a triangle is $\frac{3}{8}$ its base. Its height is 9 cm. Find its area.

Do not write this column

Ans: _____ cm^2

28. The figure below is made up of 4 identical rectangles and 7 identical squares. The perimeter of the square is 8 cm. Find the area of the figure.

Ans: _____ cm^2

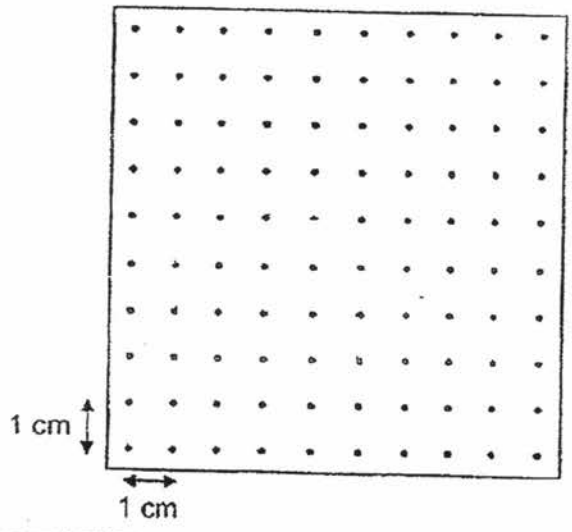
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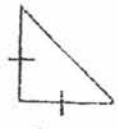
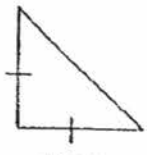
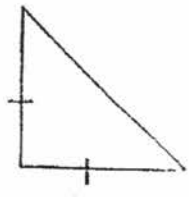
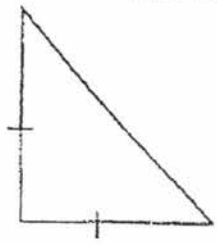
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29. Draw a triangle of 12 cm^2 in the grid below.

Do not write in this column



30. Study the table below.

Figure 1	Figure 2	Figure 3	Figure 4
			
2 cm	3 cm	4 cm	5 cm

What is the area of the triangle in Figure 9?

Ans: _____ cm^2

4

End of Booklet B

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SINGAPORE CHINESE GIRLS' SCHOOL

FIRST SEMESTRAL ASSESSMENT 2017

PRIMARY 5

MATHEMATICS

PAPER 2

Name : _____( )

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

	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.

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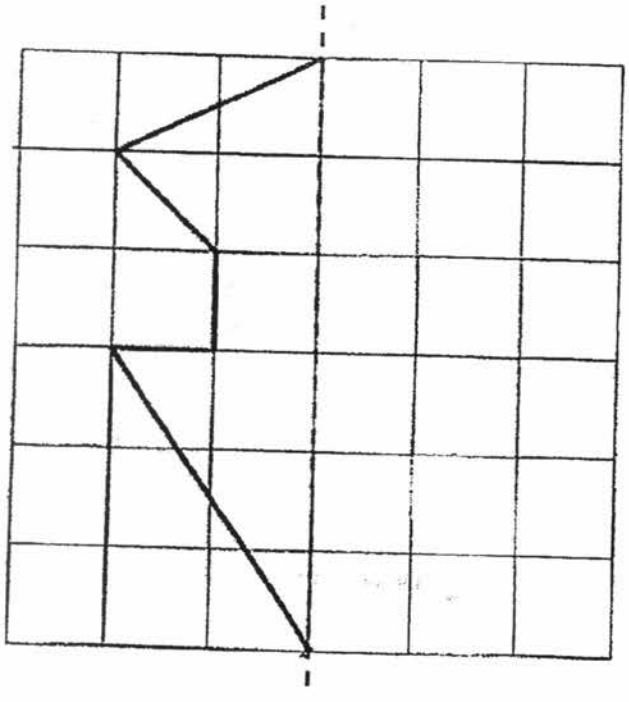
Questions 1 to 5 carry 2 marks each. Show your working clearly in the space below each question and write your answers in the space provided. For questions which require units, give your answers in the units stated. **(10 marks)**

Do not write in this column

1. Ethan poured 158 ℓ of oil into bottles. Each bottle can contain 4 ℓ of oil. After filling the last bottle, Ethan has some oil left. What is the remaining amount of oil left?

Ans: _____ ℓ

2. Complete the figure using the dotted line as the line of symmetry.



4

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3. At a contest, there were equal number of male and female participants. After the first round, 8 female and 12 male participants lost the contest. In the end, there were thrice as many female participants as male participants left. How many female participants were there at first?

Do not write in this column

Ans: _____

4. How many 2-cm cubes can you fit into a rectangular tank measuring 20 cm x 19 cm x 11 cm?

Ans: _____

4

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5. A shelf can fit **either** a maximum of 84 files **or** a maximum of 70 dictionaries. If there are already 36 files and 24 dictionaries on the shelf, how many more dictionaries can fit into the shelf?

Do not write in this column

Ans: _____

2

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For questions **6** to **18**, 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. There are blue and red pens in a box. The number of red pens is $\frac{6}{7}$ of the blue pens. 6 more blue pens are added into the box. The number of red pens is now $\frac{2}{3}$ of the blue pens. Find the number of red pens.

Ans: _____[3]

7. Kelvin has a bag of marbles. $\frac{1}{4}$ of the marbles are red. The remaining are blue and green marbles in the ratio 1 : 5. There are 60 more green marbles than red marbles. How many marbles does Kelvin have altogether?

Ans: _____ [3]

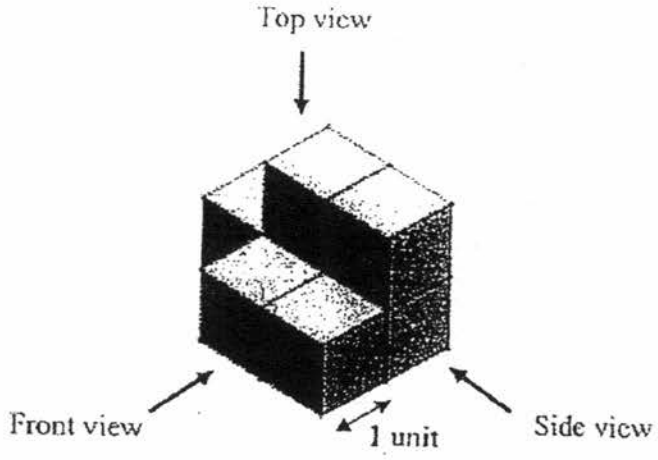
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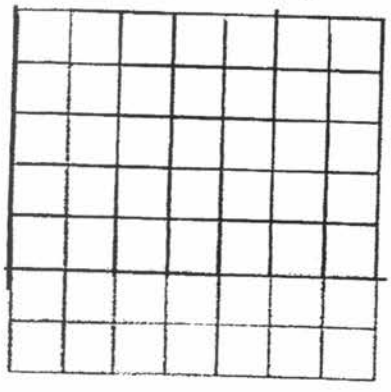
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8. The solid below is made up of unit cubes. Draw and shade the top view, side view and front view of the solid in the given square grids.

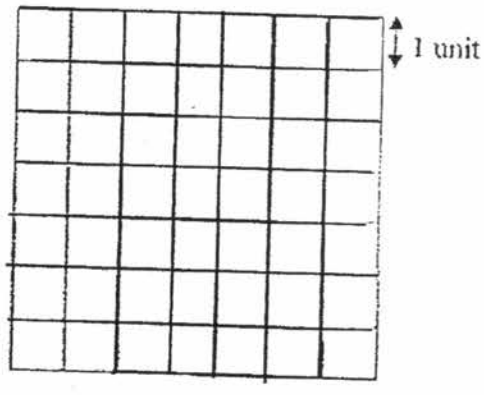
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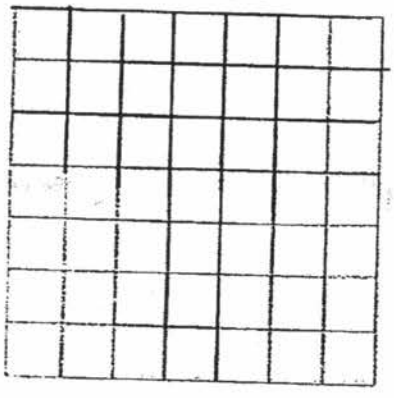
top view [1]



side view [1]



front view [1]



3

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9. A baker has a sack of flour. She used $\frac{2}{3}$ of it to bake cakes and $\frac{1}{4}$ of the remainder to bake cookies. If she has $37\frac{1}{2}$ kg of flour left, how much flour was in the sack at first?

Do not write in this column

Ans: _____ [3]

10. $\frac{3}{8}$ of Benson's savings was equal to $\frac{1}{3}$ of Ray's savings. Ray had $90 more than Benson in savings. How much did Benson have?

Ans: _____ [3]

6

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11. The ratio of the people in Camp A and Camp B is 3 : 7. After 30 people moved from Camp A to Camp B, the ratio became 2 : 5. Find the number of people in Camp A in the end.

Do not write in this column

Ans: _____ [4]

4

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Do not write in this column

2. Shamila had some cookies. She sold $\frac{3}{4}$ of the cookies on the first day. She sold $\frac{1}{2}$ of the remaining cookies plus 2 more on the second day. She had 84 cookies left in the end. How many cookies did Shamila have at first?

Ans: _____ [4]

4

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13. Norleen spent $21 on bookmarks and pens. The ratio of the number of pens to the number of bookmarks she bought is 1 : 5. A pen costs $2 and a bookmark costs $0.20. How many bookmarks did she buy?

Do not write in this column

Ans: _____ [4]

4

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14. In a competition, Jesslyn answered a total of 50 questions. Each correct answer earns her 5 points while 3 points will be deducted for each wrong answer. If Jesslyn earned a total of 106 points, how many correct answers did Jesslyn answer in the competition?

Do not write in this column

Ans: _____ [4]

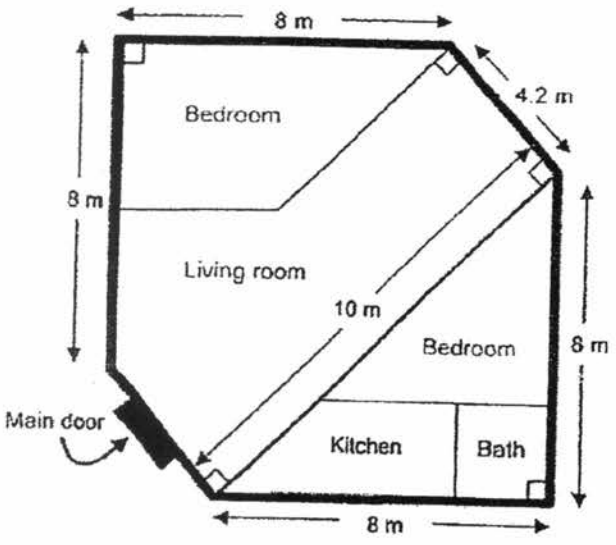
4

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15. Below is a floor plan of a house. The dimension of the house is given as shown. Find the area of the house.

Do not write in this column



Ans: _____ [4]

4

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Do not write in this column

16. Mrs Tan needed 200 donuts for a P6 party. Each donut costs $0.90. For every 5 donuts bought, 1 donut will be given free. How much did Mrs Tan spend on the donuts?



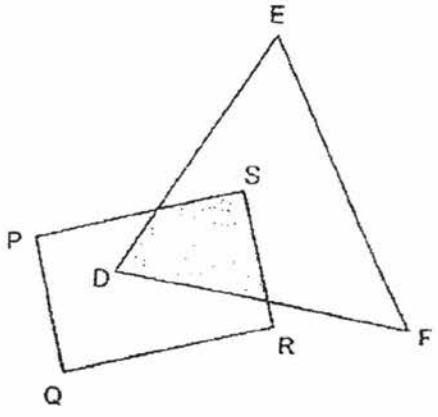
Ans: _____ [5]

5

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17. The figure shows a rectangle and a triangle overlapping each other. The area of rectangle to triangle is 5 : 8. The unshaded area of rectangle to the unshaded area of triangle is 5 : 9. The overlapped shaded area is 35 cm^2. Find the area of triangle.

Do not write in this column



Ans: _____ [5]

End of Paper 2

~ Please check your work thoroughly. ~

5

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SCHOOL : SINGAPORE CHINESE GIRLS' SCHOOL

LEVEL : PRIMARY 5
SUBJECT : MATH
TERM : 2017 SA1

PAPER 1 BOOKLET A

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

Q 11	Q12	Q13	Q14	Q15
3	1	4	1	2

PAPER 1 BOOKLET B

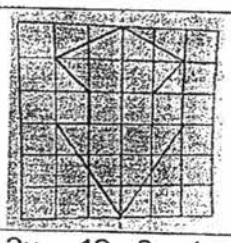
Q16)	85403
Q17)	30 : 20
Q18)	36
Q19)	5/12
Q20)	1/3
Q21)	8/20 = 2/5
Q22)	6 : 1 : 3
Q23)	{draw the bar up to 112}
Q24)	2/12= 6kg 1u — 6kg/2 = 3kg 12u — 3kg x 12 = **36kg**
Q25)	sister — 1/12 x 3kg = 3/12kg Mother — 1/2kg = 6/12kg Left — 3kg - 3/12kg - 6/12kg = 2¼kg
Q26)	Short hair — ¼ x ⅔ = 1/6
Q27)	height — (9/3) x 8 = 24 Area = ½ x 24 x 9 = **108 cm²**
Q28)	Length of square — 8/4 = 2 Area of figure — (5 x 2) x (3 x 2) = 60
Q29)	**{draw a triangle with base 4cm and height 6cm}**
Q30)	Area — ½ x 10 x 10 = 50

PAPER 2

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Q1) No. of bottles— 158L / 4L ≈ 39
Left — 158L - (4L x 39) = **2L**

Q2)



Q3) 2u— 12 - 8 = 4
1u— 4/2 = 2
At first— 2 + 12 = **14**

Q4) No. of cubes— (20cm x 18cm x 10cm)/(2cm x 2cm x 2cm) = **450**

Q5) Files : Dictionaries
84 : 70
=12 : 10
=36 : 30

36 files occupy the same amount of space as 30 dictionaries.
More— 70 - 24 - 30 = **16**

Q6) Before
R:B
6:7

After
R:B
2:3
6:9

Difference is 2u
2u— 6
1u— 3
6u— 3 x 6 = **18**

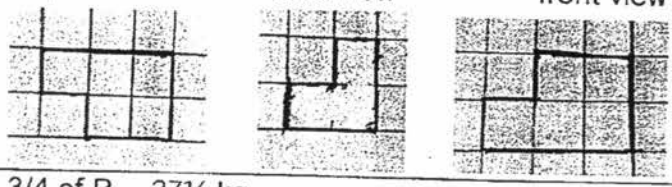
Q7) Red: blue & green: total
1 :3 : 4
2 :6 : 8

Blue : green : blue & green
1 : 5 : 6

Difference is 3u
3u—60
1u— 60/3 = 20
8u—20 x 8 = **160**

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Q8) Top view side view front view



Q9) 3/4 of R— 37½ kg
1/4 of R— 37½/3 = 12½kg
4/4 of R— 12½ kg x 4 = 50kg
1/3 of total— 50kg
3/3 of total— 50kg x 3 = **150kg**

Q10) 3/8 of B = 1/3 of R
3/8 of B = 3/9 of R
Benson—8u
Ray—9u
Difference—1u
1u—$90
Benson(8u)—$90 x 8 = **$720**

Q11) Before
A:B:total
3:7:10
21:49:70

After
A:B:Total
2:5:7
20:50:70
Difference— 1u
1u—30
20u(A in the end) —30x20=**600**

Q12) 1/2 of R— 2 + 84 = 86
R—86 x 2 = 172
1/4 of total—172
4/4 of total—172 x 4 = **688**

Q13) P:B
1:5
1 set— $2 + (5x$0.20) = $3
No. of sets— $21/$3 =7
No. of bookmarks— 5 x 7 = **35**

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Q14) Each correct ans — 5 awarded
Each wrong ans — (3+5) deducted = 8 deducted
If all answered correctly — 50 x 5 = 250
Diff— 250 -106 = 144
Wrong— 144/8 =18
Correct— 50 -18 = **32**

Q15) Area of triangle — 8m x 8m = $64m^2$
Area of rectangle — 10m x $4.2m^2$ = $42m^2$
Total— $64m^2$ + $42m^2$ = **$106m^2$**

Q16) 1 set of 6 donuts— 5x \$0.90 = \$4.50
No. of sets— 200/6 ≈ 33
33 sets— 33 x \$4.50 = \$148.50
No. Of donuts not in sets— 200- (33 x 6) = 2
Spent— \$148.50 + (\$0.90 x 2) = **\$150.30**

Q17) Rect: triangle : difference
5 : 8 : 3
=29 : 32 : 12

Unshared rect: unshaded tri: diff
5 : 9 : 4
15 : 27 : 12

Difference — 5u
5u— $35cm^2$
1u— $35cm^2/5 = 7cm^2$
Triangle(32u) — 32 x $7cm^2$ = **$224cm^2$**

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